1. Install Jenkins on one of the server on your setup (Local VM / Ec2 / WSL).

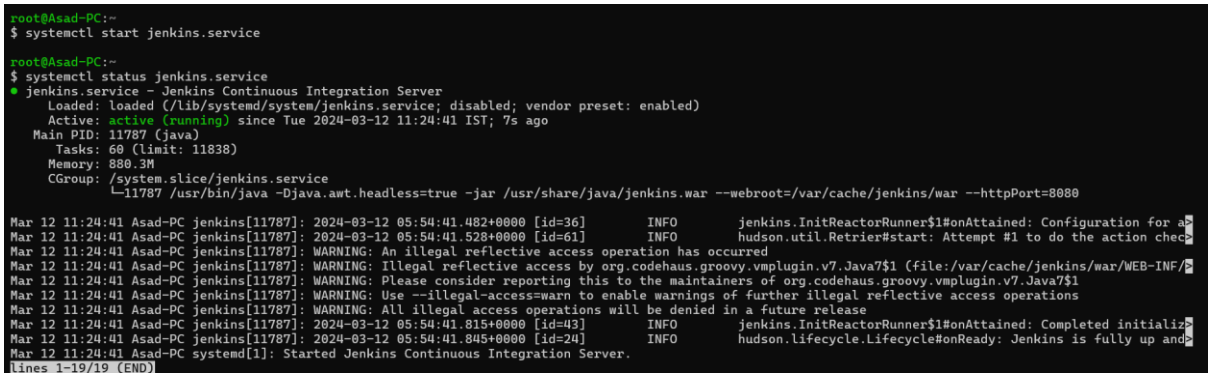
Once Jenkins is installed , try install plugins with and without restart option.

Please verify plugins installed successfully.

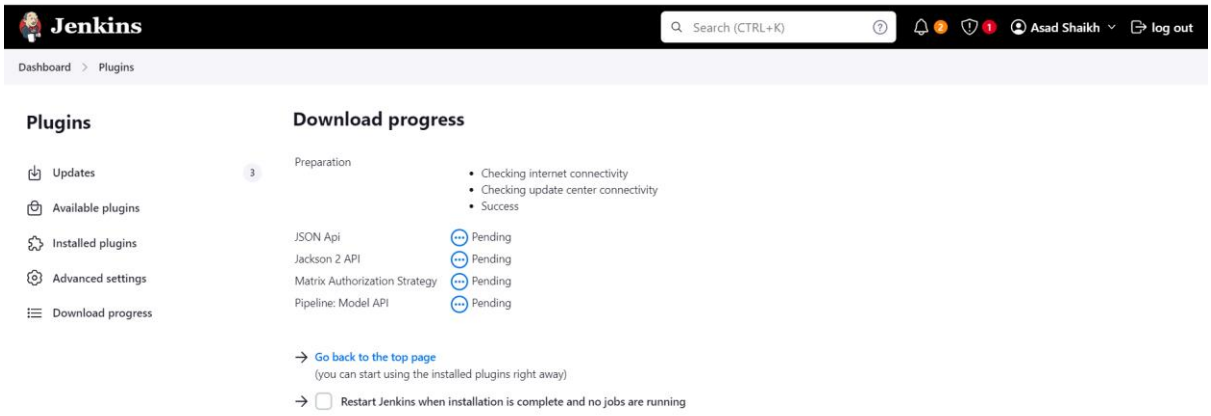
→
follow below link to install Jenkins on WSL

https://medium.com/try-except-finally/install-jenkins-on-wsl-ubuntu-d6cfeec8cd60#:~:text=To%20enable%20the%20WSL%20feature,App%20you%20just%20installed%2C%20a

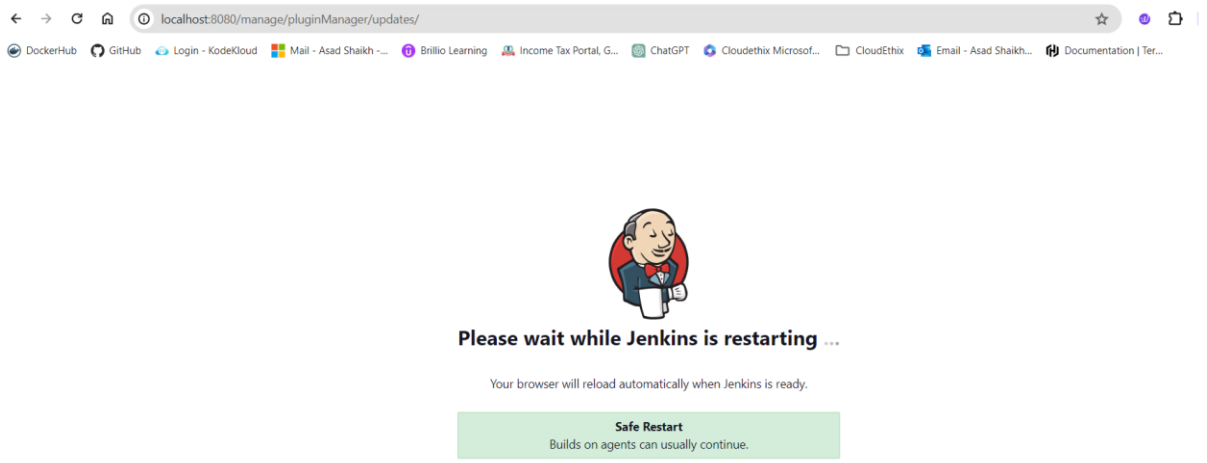
Installed Jenkins on WSL Ubuntu 22.04.4 LTS



Installing plugins without restart options



With restart options

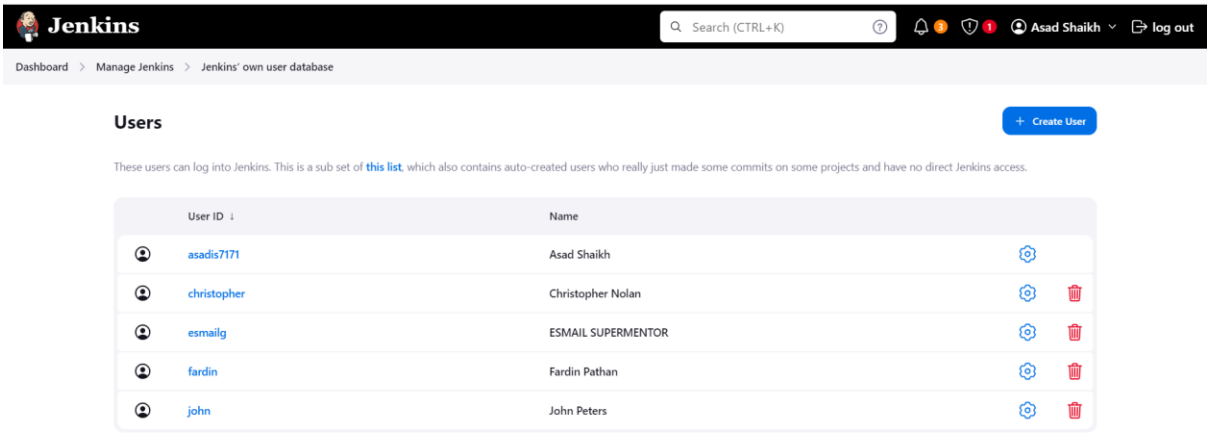


2. Create any 4 local Jenkins users on your Jenkins server. Also create 2 Jenkins roles named developers & delivery.

Once roles are created, assign developers role to 3 users and delivery role to project Manager user.

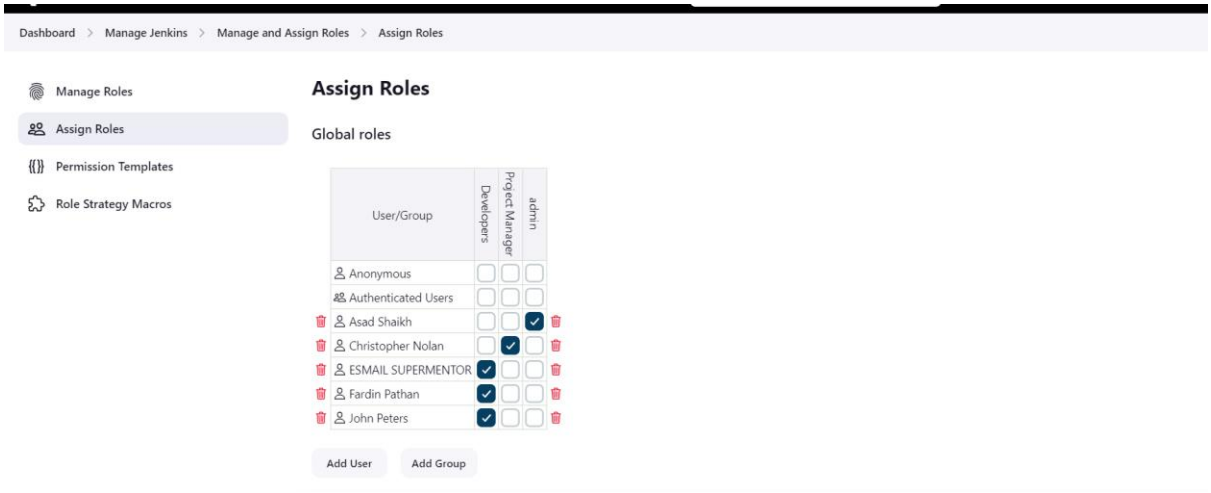
Please take screenshots and prepare well formatted document of your understanding.

➔ Created 4 users



Downloaded Role base authorization plugin

And assigned roles to users



3. Create a Jenkins job named YOURNAME_Job_01 on a Jenkins Server.

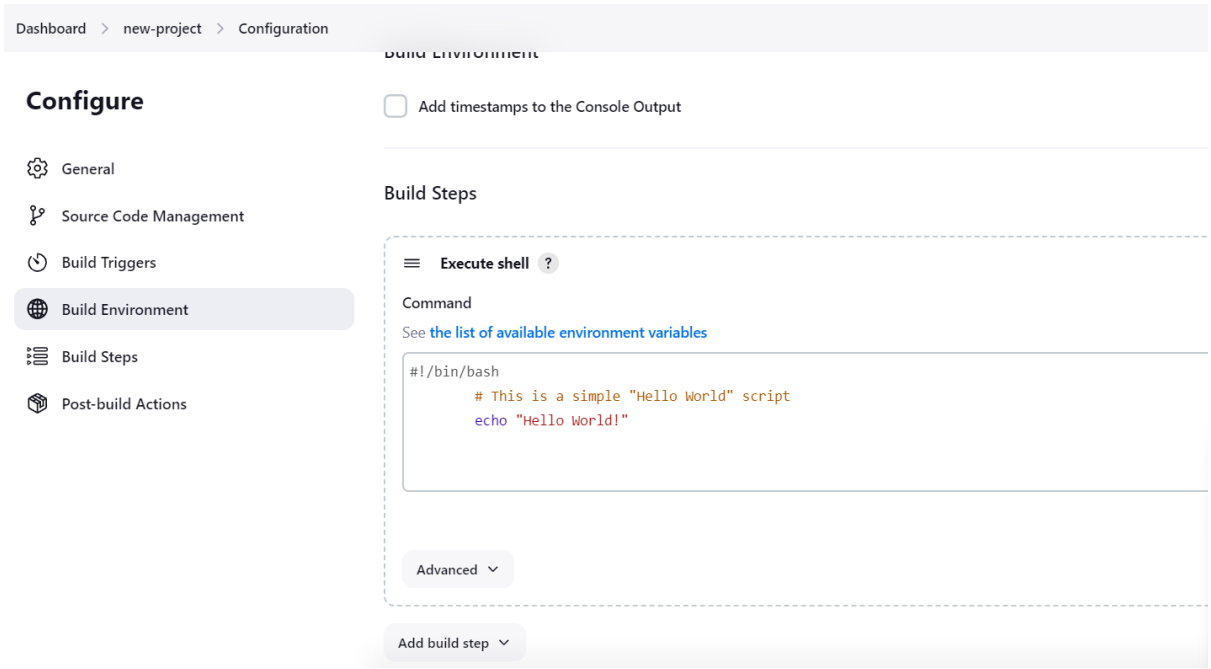
This job should run below given shell script in the job.

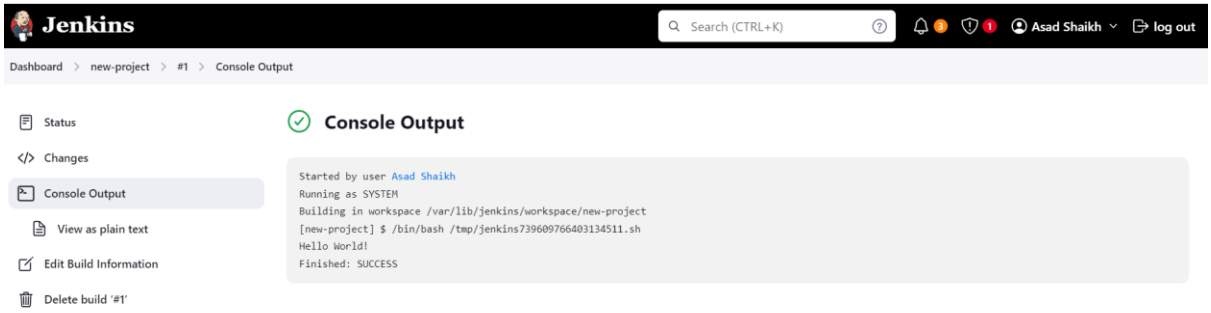
Please check the console output of job and make sure it is successful.

```
#!/bin/bash
# This is a simple "Hello World" script
echo "Hello World!"
```

Prepare well formatted document with screenshots.

→





4. Create a Jenkins job named YOURNAME_Job_02 that runs a shell script on a local server Jenkins.

The script should take in two parameters, e.g. num1, num2 from Jenkins.

This shell is taking 2 command line arguments as numbers.

Try to execute script locally to understand it more.

sh your_script_name.sh 11 12

#] vim your_script_name.sh

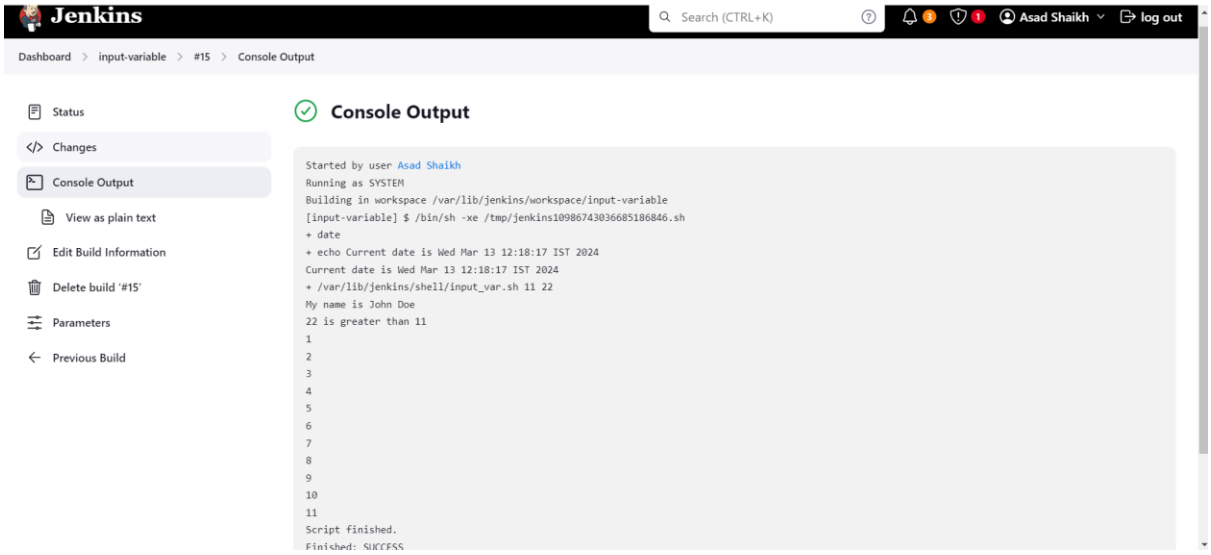
```
#!/bin/bash

#Define a variable named "name"
    name="John Doe"

#Print the value of the variable
    echo "My name is $name"

#except the value from the user for two numbers and store the values in variables
    num1 = $1
    num2 = $2

#Use an if statement to check if the first number is greater than the second number
    if [ $num1 -gt $num2 ]; then
        echo "$num1 is greater than $num2"
    else
        echo "$num2 is greater than $num1"
    fi

#Use a for loop to print the numbers from 1 to the value of the first number
    for i in $(seq 1 $num1); do
        echo $i
    done

#Print a message indicating that the script is finished
    echo "Script finished."
```

Once script is tested locally , create 2 parameters in Jenkins and pass those parameters to the shell script.

Run the Jenkins job and check the console out for detailed job logs.

→

```
root@Asad-PC:/var/lib/jenkins/shell
$ sh input_var.sh 34 45
My name is John Doe
45 is greater than 34
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
Script finished.
```



5. Create a Jenkins job named YOURNAME_Job_03 that runs a shell script on a local server using Jenkins parameters.

The script should take in three parameters, liKE NAME, LAST_NAME, SHOW.

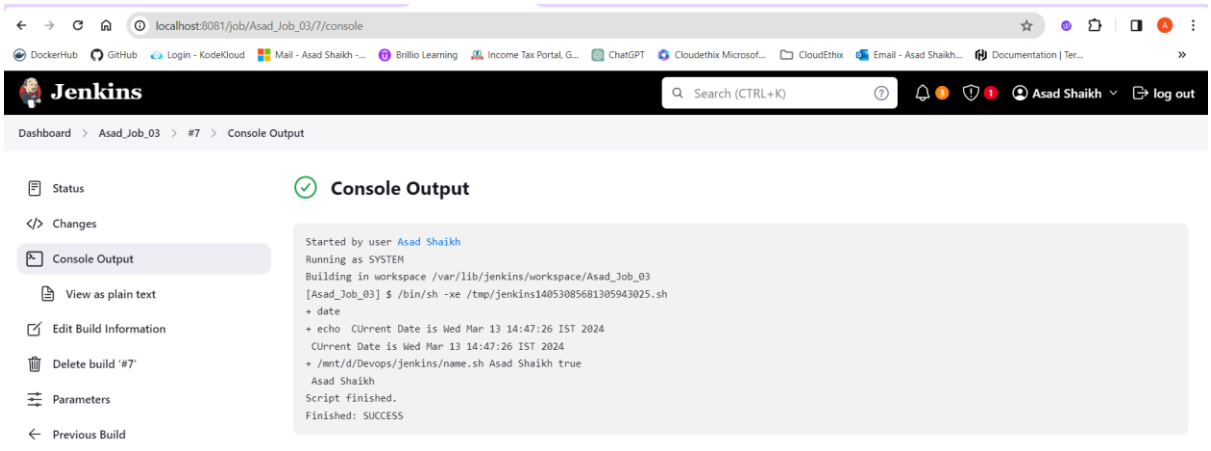
Print the NAME and LAST_NAME if value of SHOW is true.

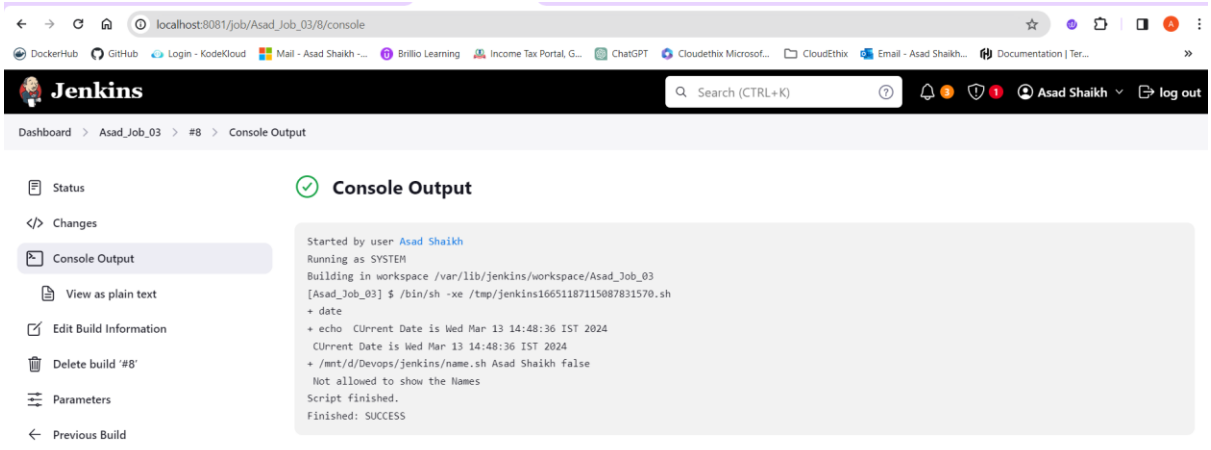
```
#!/bin/bash
# Define a variable and except the value from the user and store the values in variables
NAME=$1
LAST_NAME=$2
SHOW=$3
# Use an if statement to check if the value SHOW is TRUE.
if [[ $SHOW == "true" ]]
then
        echo " $NAME $LAST_NAME"
else
```

```
        echo " Not allowed to show the Names "
fi

# Print a message indicating that the script is finished
echo "Script finished."
```

→

```
root@Asad-PC:/mnt/d/Devops/jenkins
$ bash name.sh Asad Shaikh true
 Asad Shaikh
Script finished.

root@Asad-PC:/mnt/d/Devops/jenkins
$ bash name.sh Asad Shaikh false
 Not allowed to show the Names
Script finished.
```




localhost:8081/job/Asad_Job_03/8/console
DockerHub
GitHub
Login - KodeKloud
Mail - Asad Shaikh -...
Brillio Learning
Income Tax Portal, G...
ChatGPT
Cloudethix Microsof...
CloudEthix
Email - Asad Shaikh...
Documentation | Ter...
Jenkins
Search (CTRL+K)
Asad Shaikh
log out
Dashboard
Asad_Job_03
#8
Console Output
Status
Changes
Console Output
View as plain text
Edit Build Information
Delete build '#8'
Parameters
Previous Build
Console Output
Started by user Asad Shaikh
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/Asad_Job_03
[Asad_Job_03] $ /bin/sh -xe /tmp/jenkins16651187115087831570.sh
+ date
+ echo CUrrent Date is Wed Mar 13 14:48:36 IST 2024
CUrrent Date is Wed Mar 13 14:48:36 IST 2024
+ /mnt/d/Devops/jenkins/name.sh Asad Shaikh false
Not allowed to show the Names
Script finished.
Finished: SUCCESS