

Experiment-1

AIM- Intallation of jenkins and execution of a simple job in jenkins

Operating System- Kali linux

1 STEP:- Add the Jenkins public key to the system

```
wget -q -O - https://pkg.jenkins.io/debian-stable/jenkins.io.key | sudo apt-key add -
```

2 STEP:- Add the jenkins repository in your system

```
sudo sh -c 'echo deb https://pkg.jenkins.io/debian binary/ > \
/etc/apt/sources.list.d/jenkins.list'
```

3 STEP:- Update your system

```
sudo apt-get update
```

4 STEP:- Install Jenkins package using the apt command.

```
sudo apt-get install jenkins
```

5 STEP:- After run all four command in terminal we need to start our jenkins and the command is:-

```
service jenkins start
```

6 STEP:- you'll test your system to make sure Jenkins is working correctly. open your browser and

write URL:-

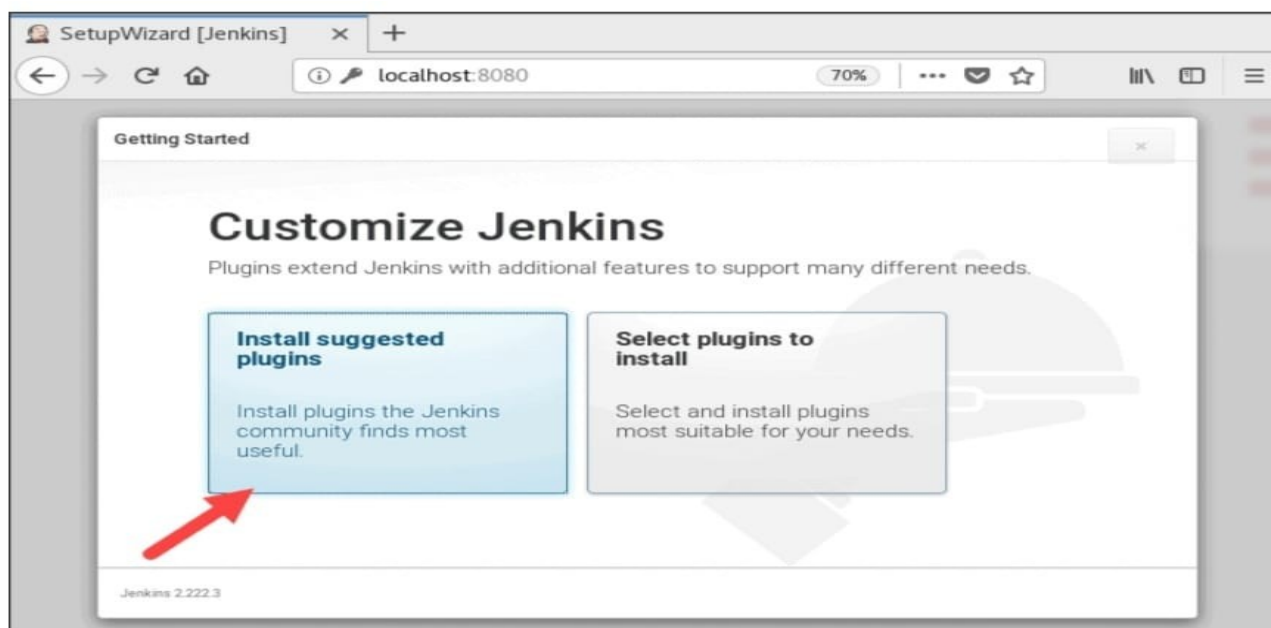
<http://localhost:8080>

7 STEP:- you should display jenkins unlock page .The jenkins should ask for temporary password:-

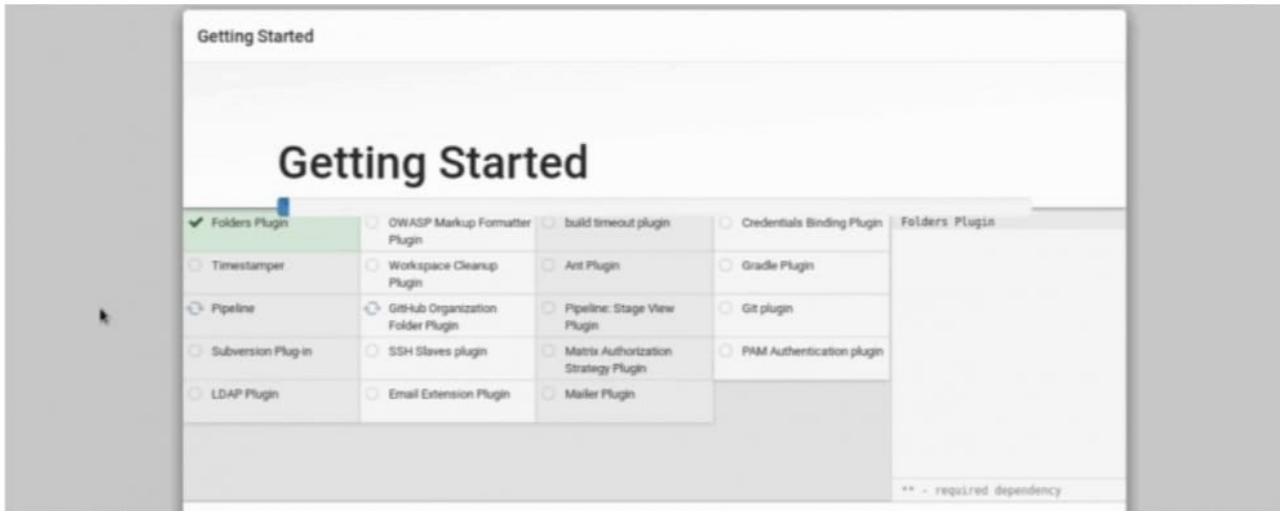


var/lib/jenkins/secrets/initialAdminPassword go this path and copy the pass. And paste here

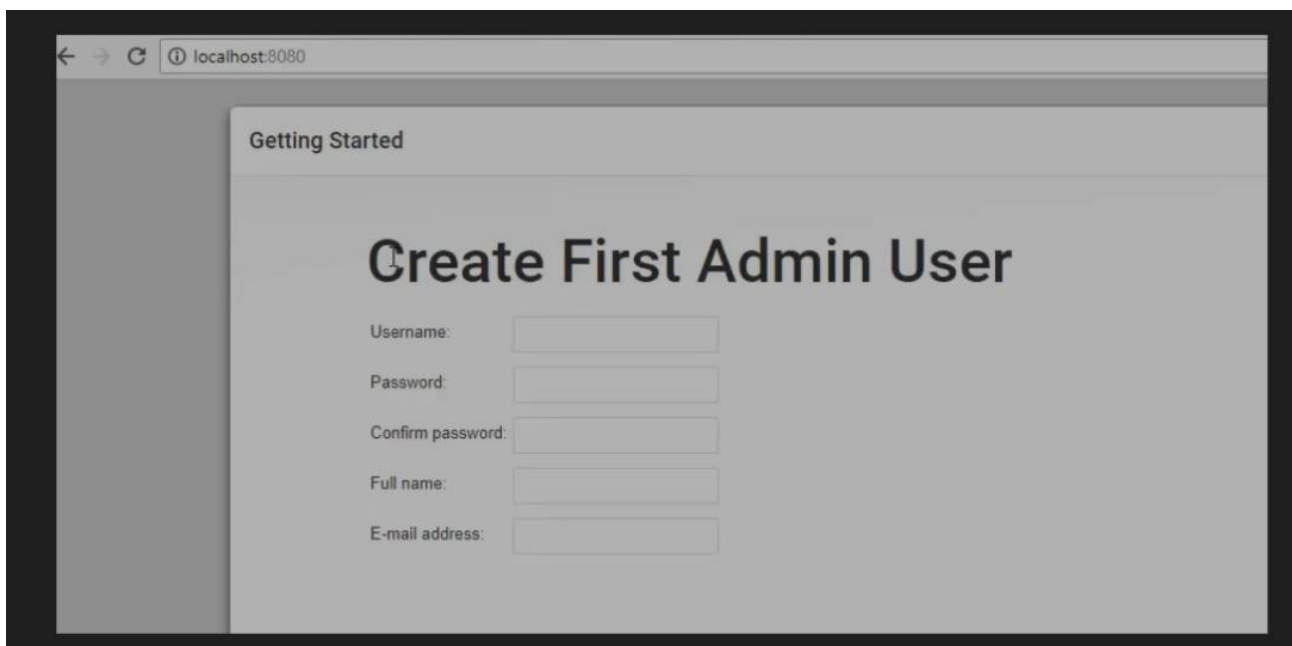
8 STEP: click on Install suggested plugins and install them:



wait until the plugins are installed

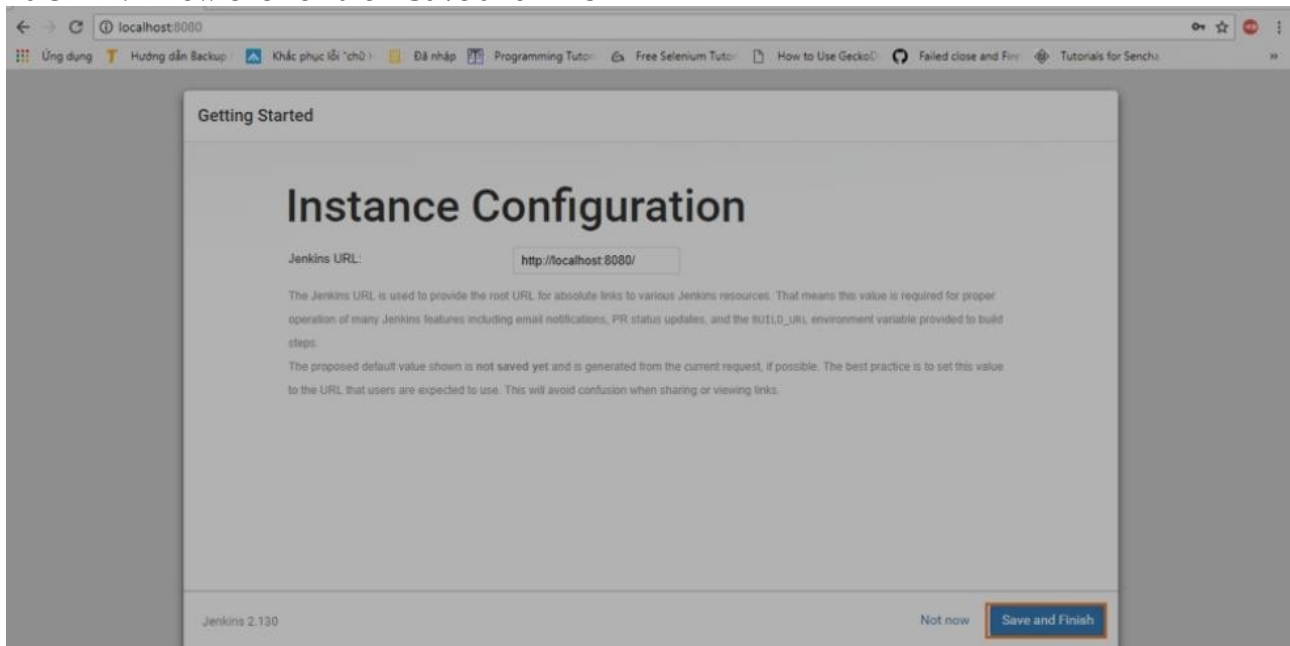


9 STEP:- Create admin user for jenkins. Fill details according to you

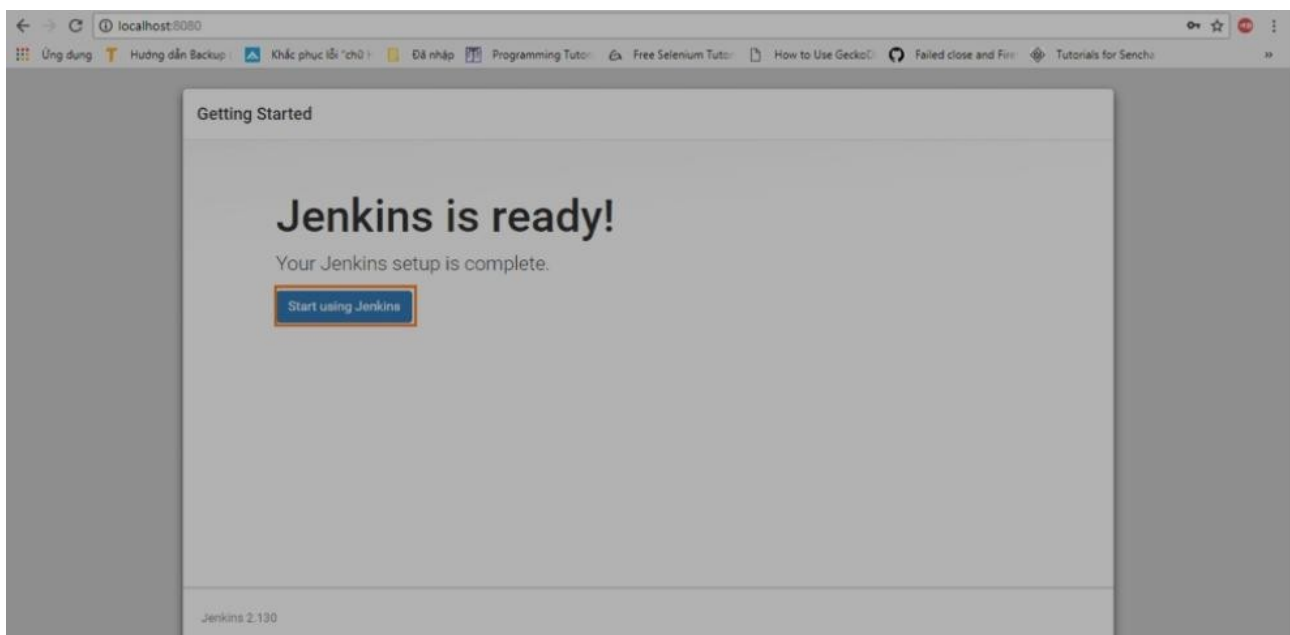


click on Save and continue

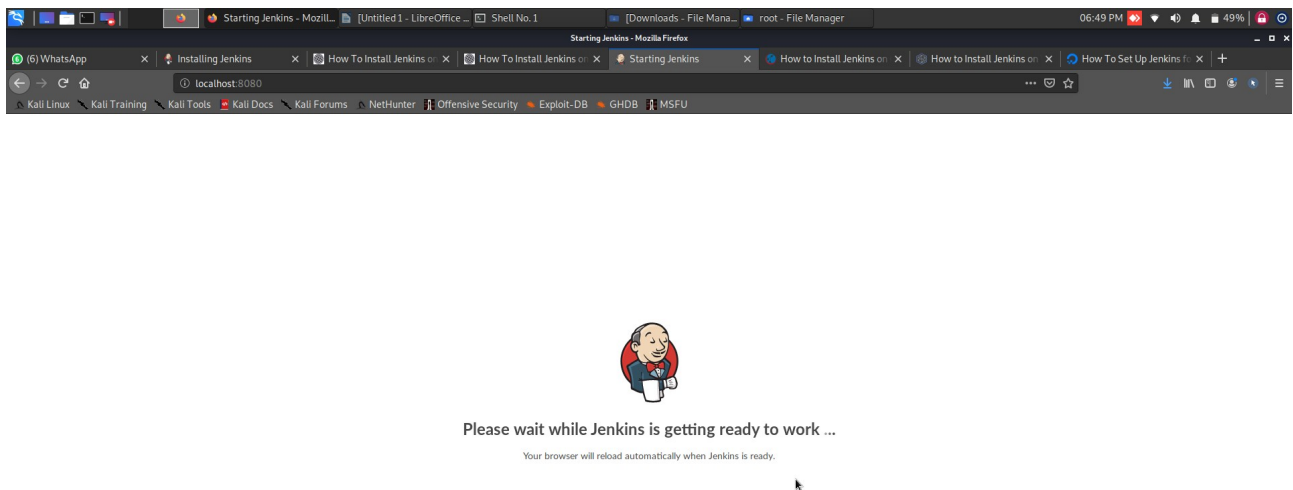
10 STEP:- Now click on the **“Save and finish”**



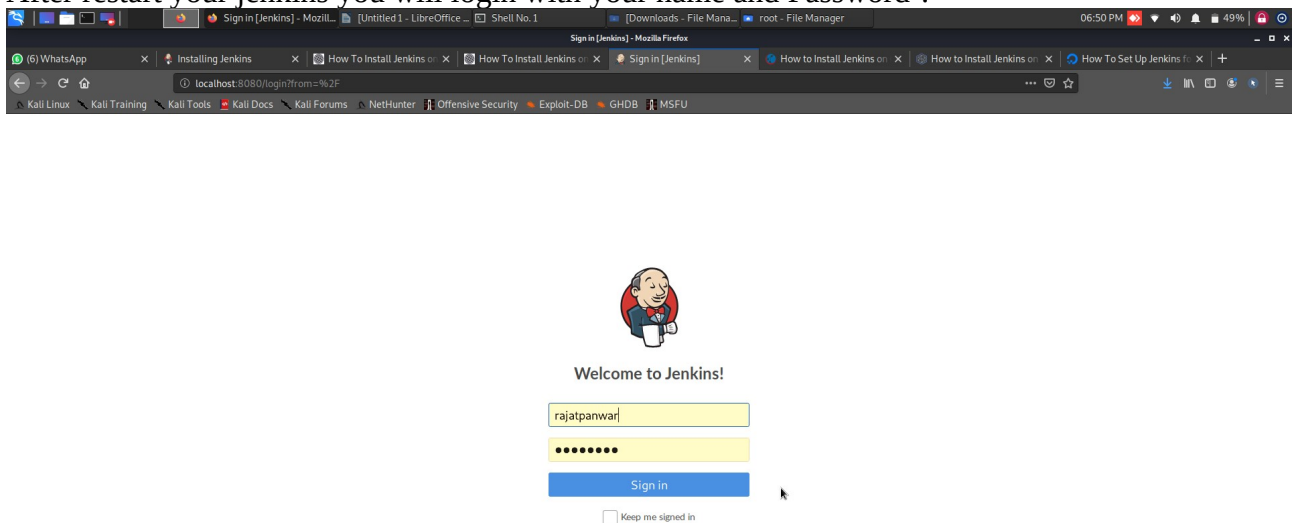
11 STEP:- Now click on the **“Start using jenkins”**



After that complete this process you can see your screen like this:-



After restart your jenkins you will login with your name and Password:-



Applications ▾Places ▾Firefox ESR ▾

Wed Aug 12 8:41 PM ●

1


36% ▾

Dashboard [Jenkins] - Mozilla Firefox

how tcompHow to FyoutubeHow Weencryptipublic kehamminDifferenBb BlackBb CGitH

localhost:8080


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 **Jenkins**


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log out

Jenkins ▸

 People

 Build History

 My Views

Welcome to Jenkins!

Build Queue

No builds in the queue.

Build Executor Status

1 Idle

2 Idle

Page generated:
Aug 12, 2020 8:41:06 PM IST

REST API

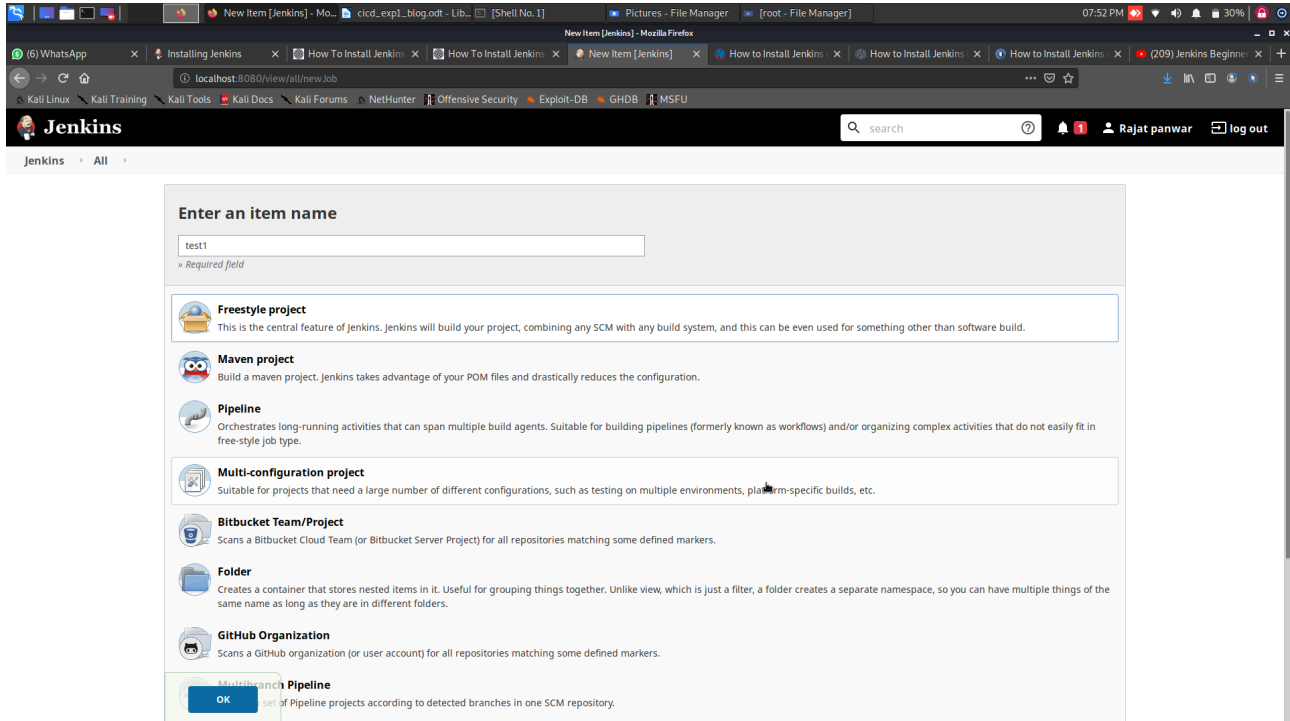
Jenkins 2.235.1

now finish your installation process

After that you create your simple job on Jenkins:

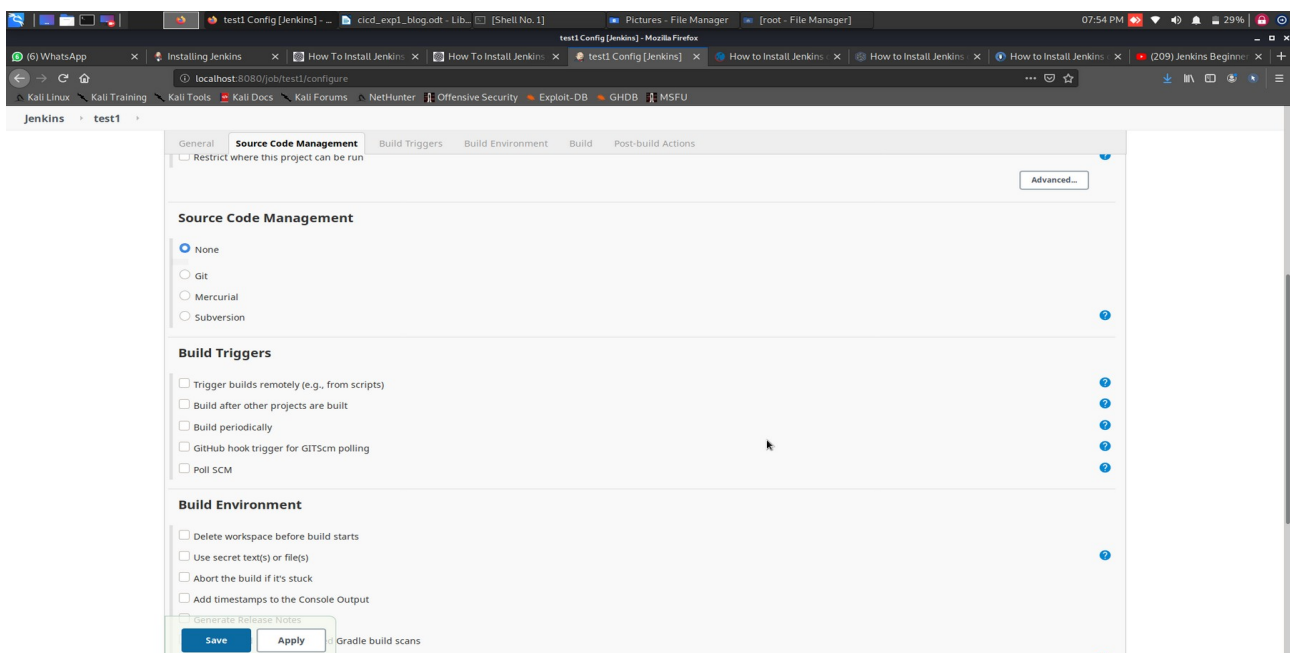
1 STEP:- Now click on the “**New Item**” and “**Freestyle project**”

i) Enter your job name “**test1**”



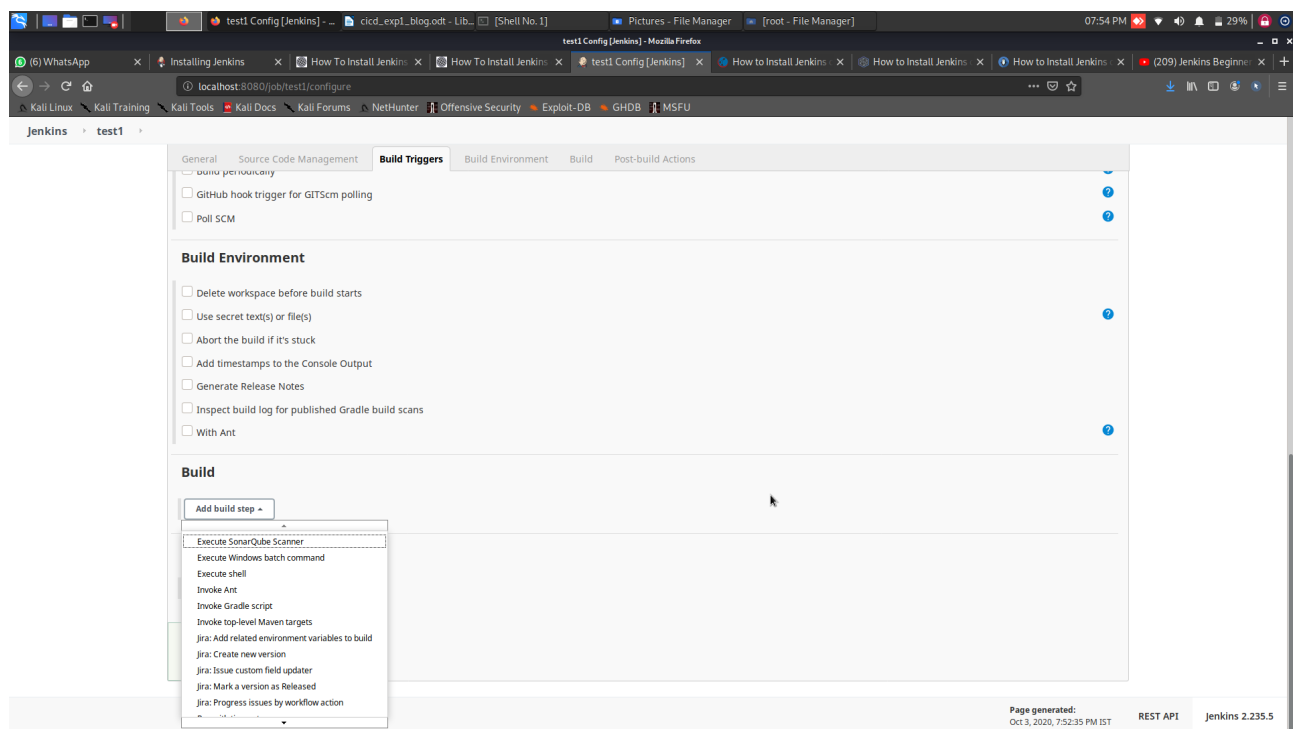
and click on “**OK**”

2 STEP:- Go on Source code management and click on “**None**” for create a simple job

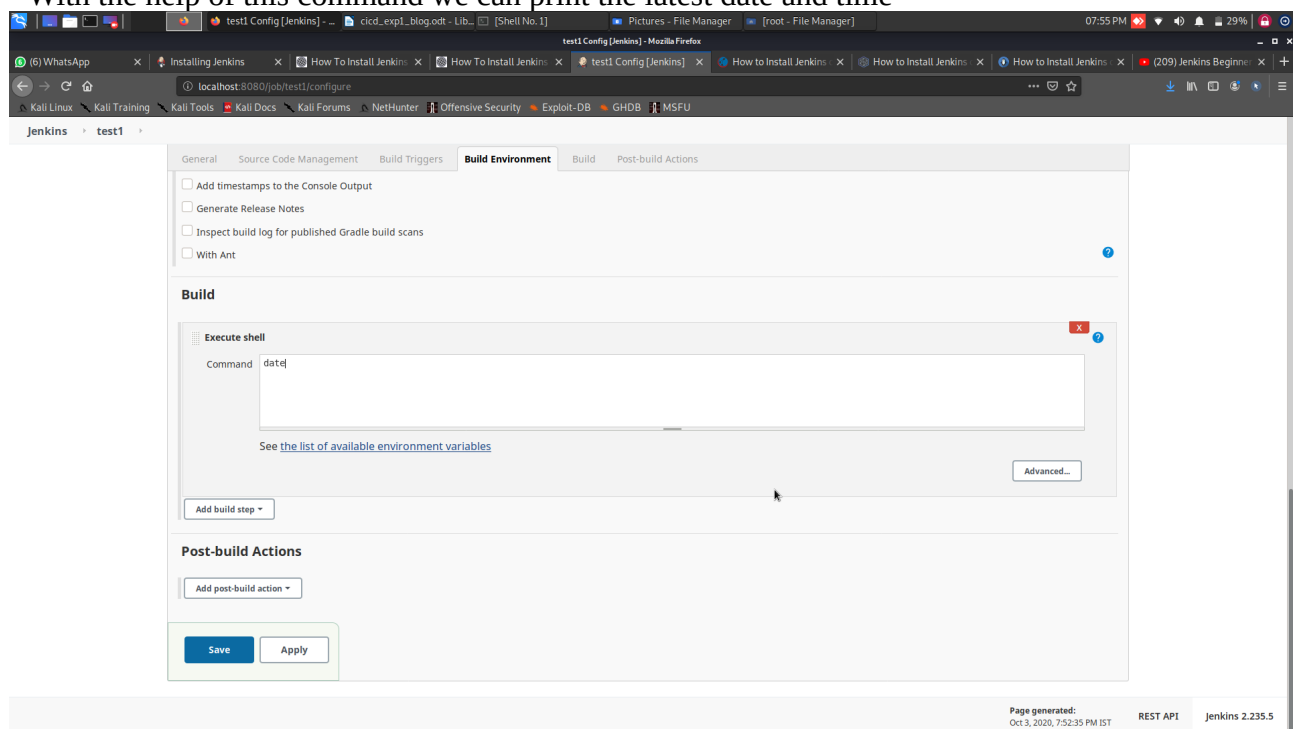


After that go on build triggers tag and **choose to according your system**

- 1) If you have windows OS than select “Execute windows batch command”
- 2) If you have mac or linux OS than select “Execute Shell”



I have linux os so i will choose Ececute shell and run “**date**” command
- With the help of this command we can print the latest date and time



and click on “apply” first and than “save”

You can see your dashboard after complete 2 STEP and you can see your project also:
-In my case my project name is “test1”

The screenshot shows the Jenkins Dashboard. On the left, there's a sidebar with navigation links like 'New Item', 'People', 'Build History', etc. The main area displays a table of builds with columns: S, W, Name, Last Success, Last Failure, Last Duration, and Fav. Below the table, there's a 'Build Queue' section showing 'No builds in the queue.' and a 'Build Executor Status' section showing 'master' (1 idle, 2 idle) and 'slave1' (offline). At the bottom right, it says 'Page generated: Oct 4, 2020, 1:56:49 PM IST', 'REST API', and 'Jenkins 2.235.5'.

S	W	Name	Last Success	Last Failure	Last Duration	Fav
		BlueOcean	N/A	N/A	N/A	
		lab2	9 hr 20 min - #2	N/A	1.7 sec	
		lab5	21 days - #1	N/A	1 min 0 sec	
		Ocean	19 days - log	N/A	4.7 sec	
		test1	11 sec - #2	N/A	0.16 sec	
		test2	13 hr - #1	N/A	3.1 sec	

3 STEP:- We need to create build for this project than click on **“build now”**

The screenshot shows the Jenkins Project test1 page. On the left, there's a sidebar with navigation links like 'Back to Dashboard', 'Status', 'Changes', 'Workspace', 'Build Now', etc. The main area displays 'Project test1' with a 'Workspace' section showing 'Recent Changes'. Below that, there's a 'Permalinks' section with a list of build links. At the bottom right, it says 'Page generated: Oct 4, 2020, 1:56:17 PM IST', 'REST API', and 'Jenkins 2.235.5'.

Project test1

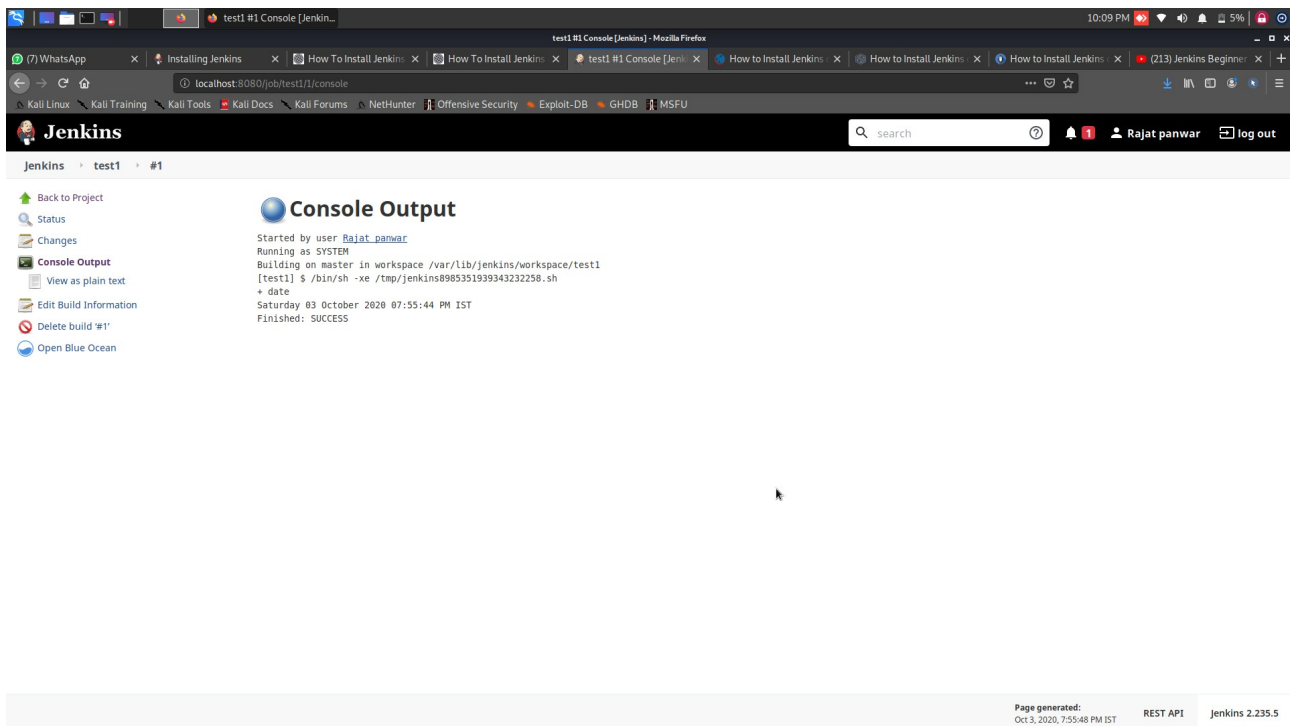
[Workspace](#)

[Recent Changes](#)

Permalinks

- [Last build \(#1\) 18 hr ago](#)
- [Last stable build \(#1\) 18 hr ago](#)
- [Last successful build \(#1\) 18 hr ago](#)
- [Last completed build \(#1\) 18 hr ago](#)

4 STEP:- After that we want to see the console output than click on **“Console output”**



If finished: Success than job has created successfully

If finished: failed than job has not created successfully.

**I HOPE THIS BLOG WILL BE HELPFULL FOR
ALL BASED ON JENKINS INSTALLATION
AND CREATE A SIMPLE JOB**

THANK YOU