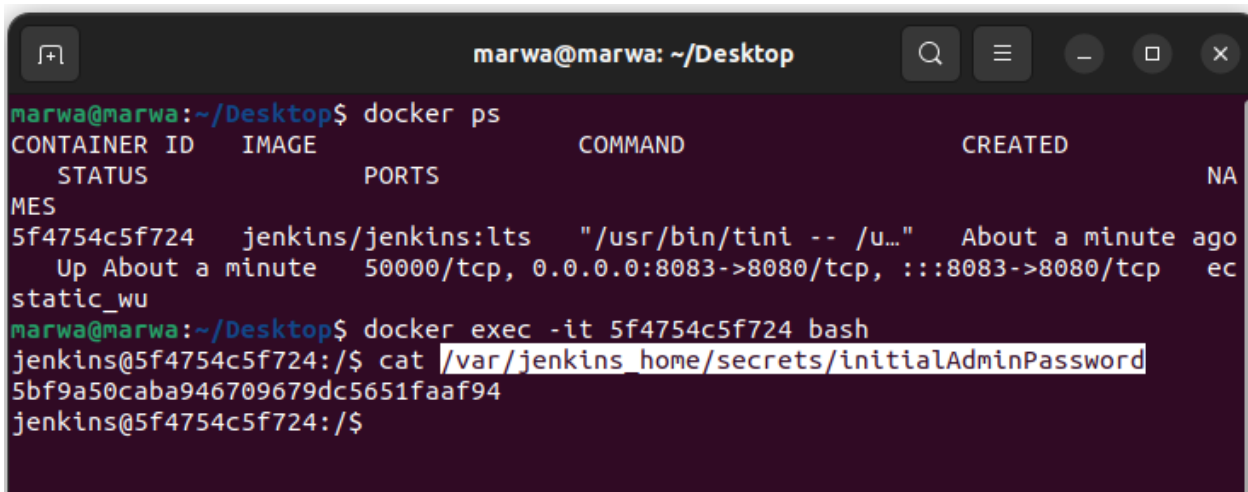


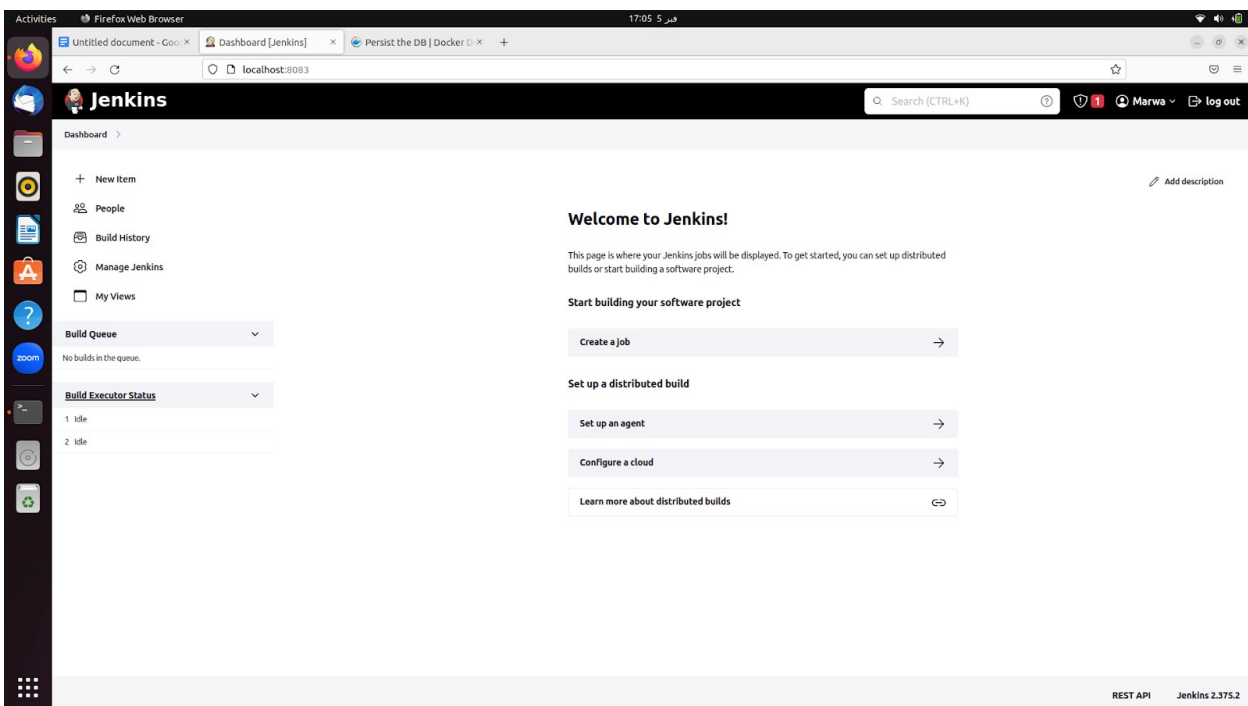
Marwa Ahmed Darwish

Lab 1

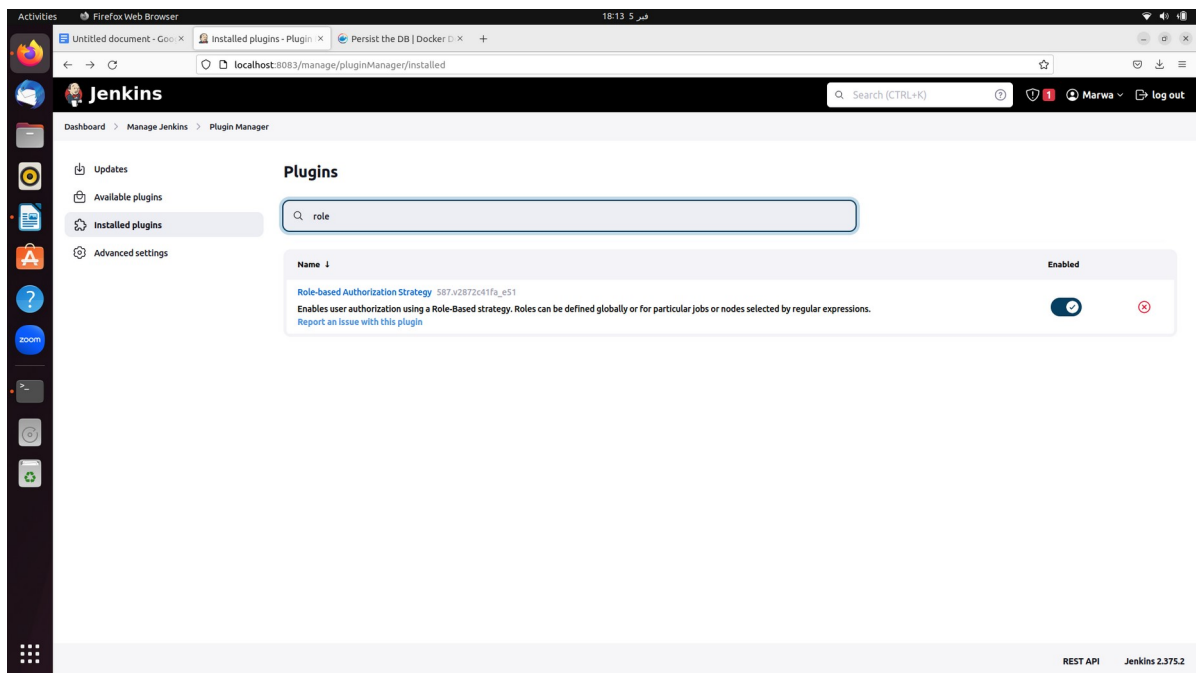
- 1- docker run -p 8083:8080 -d jenkins/jenkins:lts
- 2- docker ps
- 3- docker exec -it 5f4754c5f724 bash
- 4- cat /var/jenkins_home/secrets/initialAdminPassword



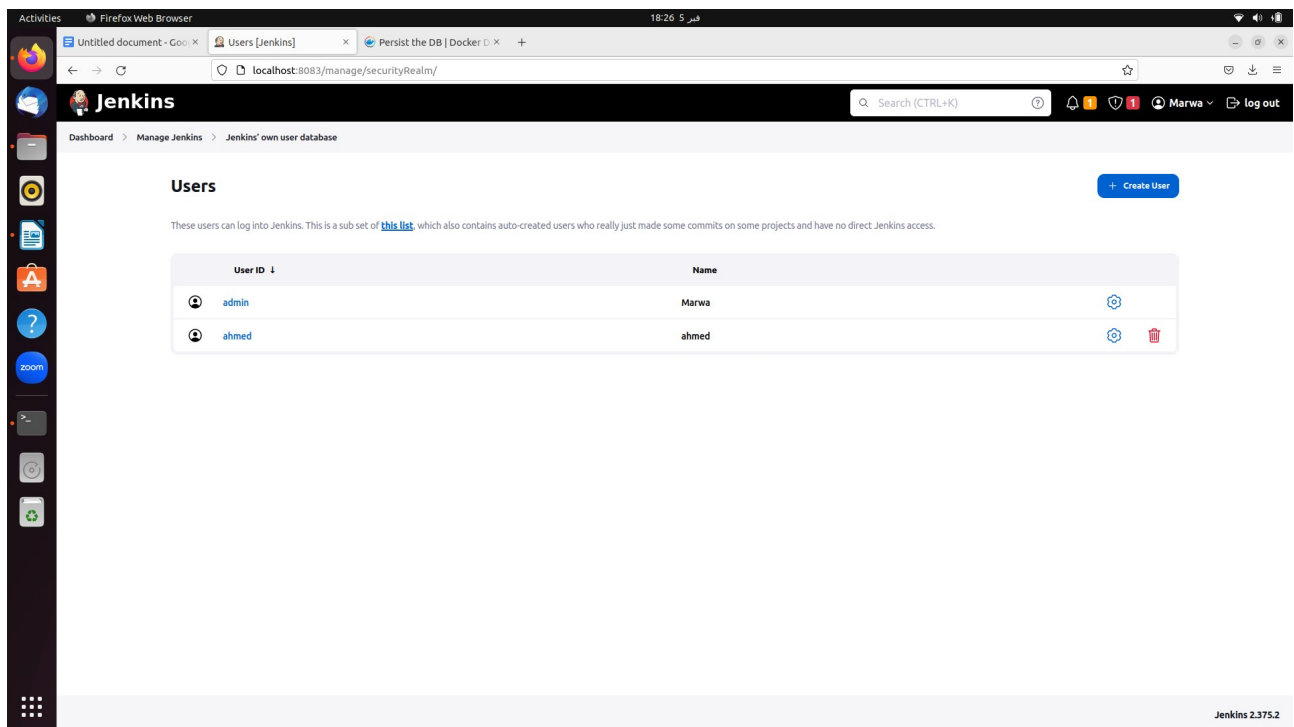
```
marwa@marwa: ~/Desktop
marwa@marwa:~/Desktop$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED
STATUS        PORTS         COMMAND                CREATED
5f4754c5f724   jenkins/jenkins:lts   "/usr/bin/tini -- /u..."   About a minute ago
Up About a minute   50000/tcp, 0.0.0.0:8083->8080/tcp, :::8083->8080/tcp   ec
static_wu
marwa@marwa:~/Desktop$ docker exec -it 5f4754c5f724 bash
jenkins@5f4754c5f724:/$ cat /var/jenkins_home/secrets/initialAdminPassword
5bf9a50caba946709679dc5651faaf94
jenkins@5f4754c5f724:/$
```



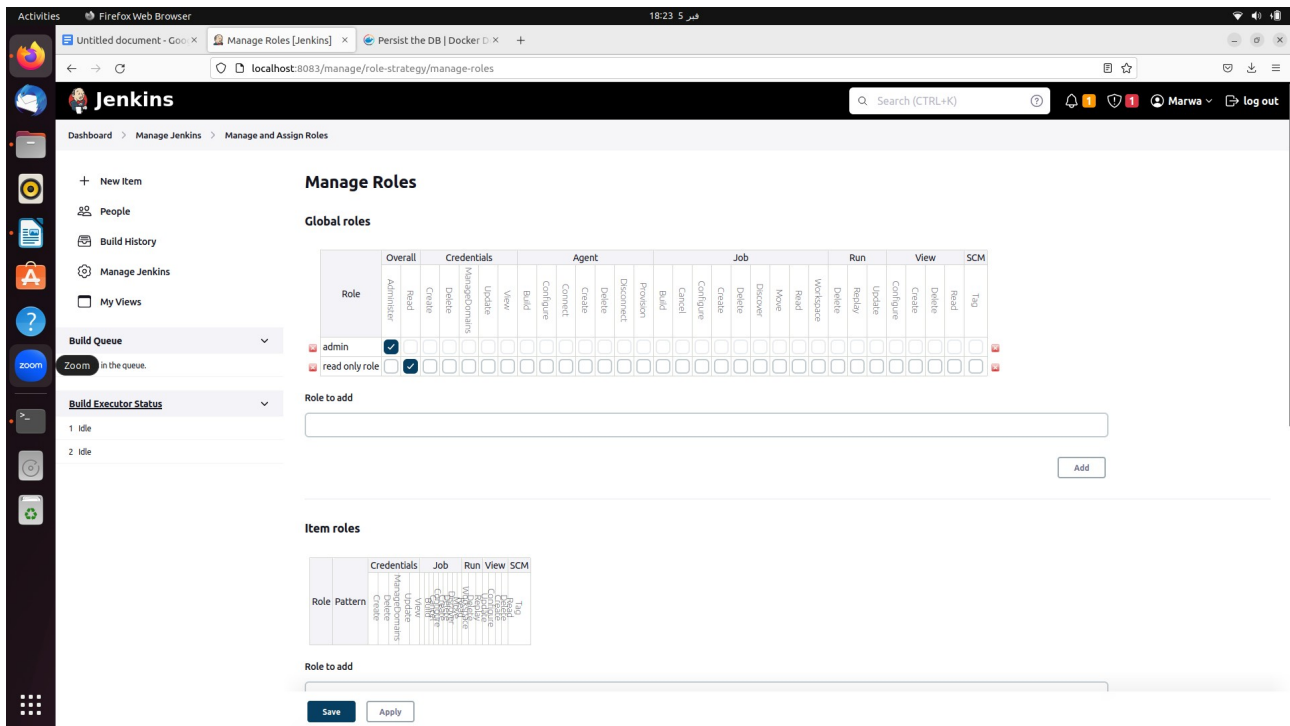
2. 1- Install role based authorization => stops the container
- 2- docker start 5f4754c5f724
- 3- configure global security => authorization => role-based strategy



3. create user



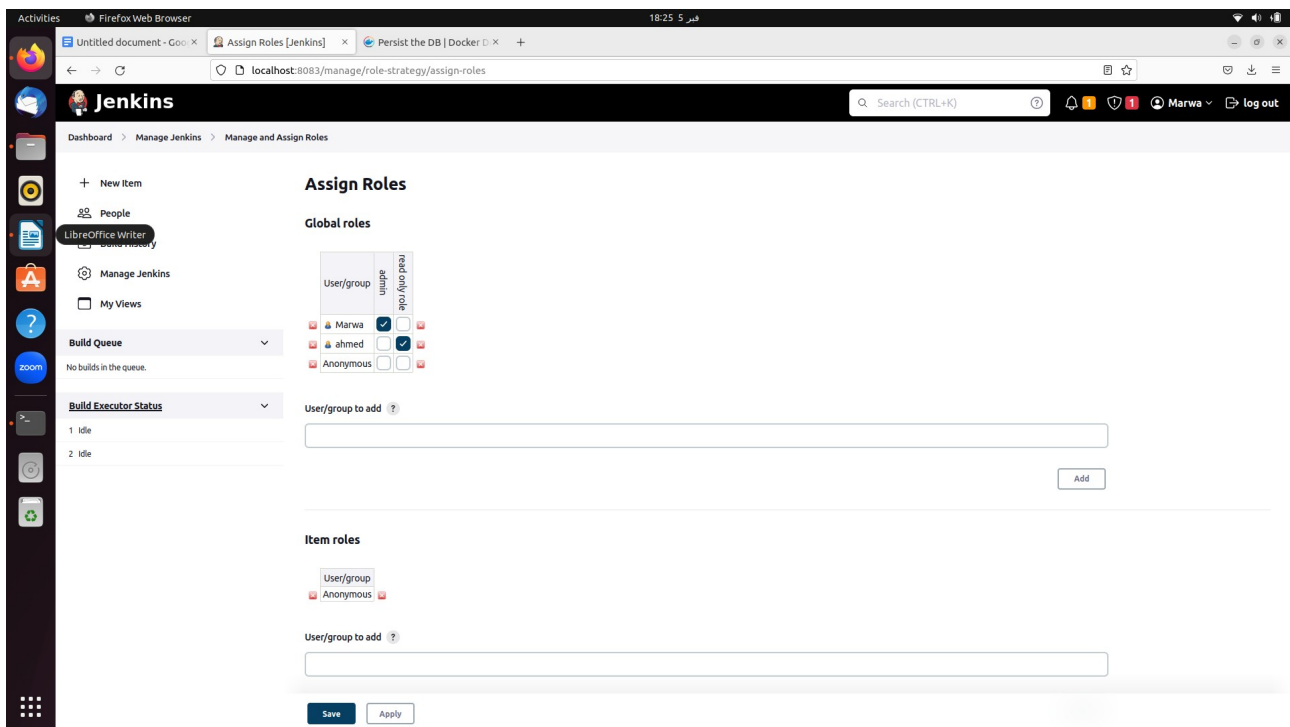
4. Create read role and assign it to new user



The screenshot shows the Jenkins 'Manage Roles' page. The left sidebar contains navigation links: 'New Item', 'People', 'Build History', 'Manage Jenkins', and 'My Views'. Below these are sections for 'Build Queue' (showing 1 item in the queue) and 'Build Executor Status' (showing 2 idle executors). The main content area is titled 'Manage Roles' and features a 'Global roles' table. This table lists roles 'admin' and 'read only role' with checkboxes for various permissions across categories like Overall, Credentials, Agent, Job, Run, View, and SCM. The 'read only role' has 'Read' checked under Overall and 'View' checked under View. Below the table is a 'Role to add' input field and an 'Add' button. At the bottom, there is an 'Item roles' section with a 'Role Pattern' table and another 'Role to add' input field with 'Save' and 'Apply' buttons.

Role	Overall	Credentials	Agent	Job	Run	View	SCM
admin	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
read only role	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

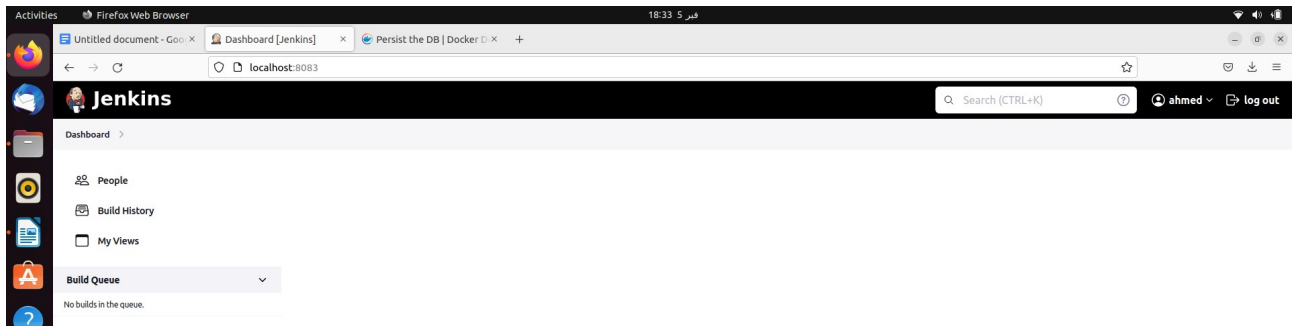
assign role to user



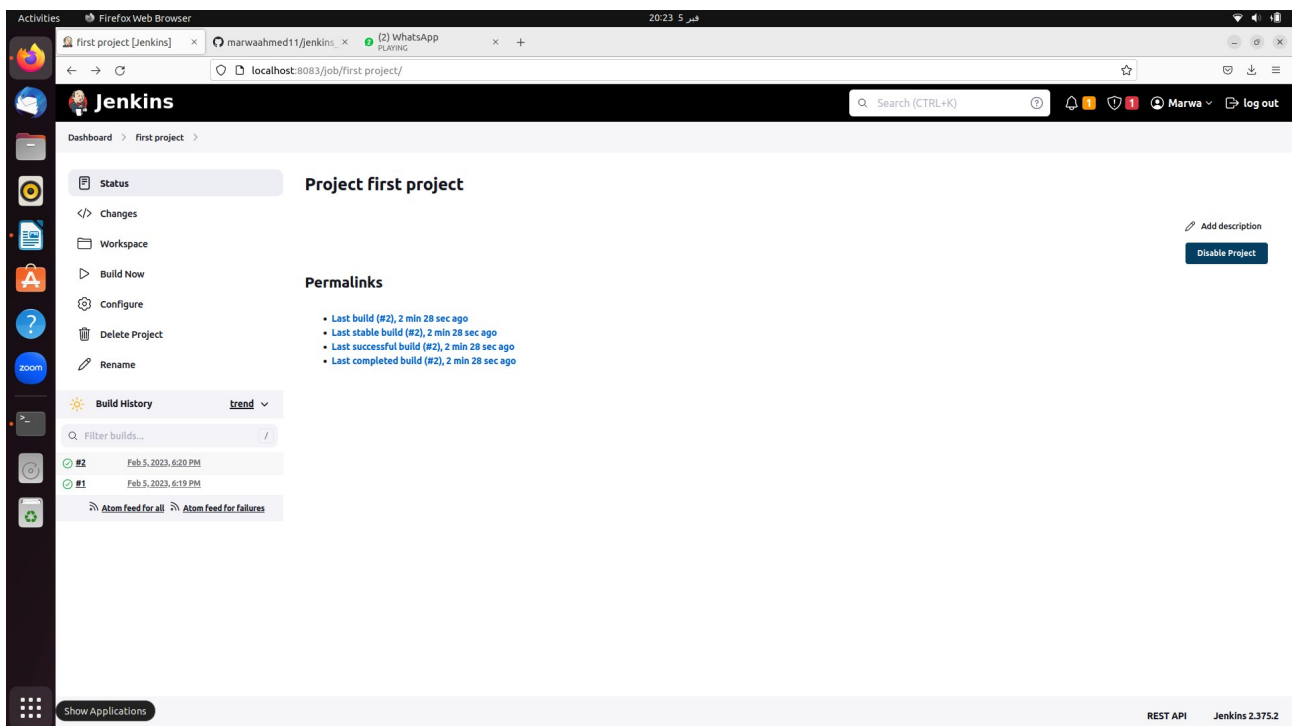
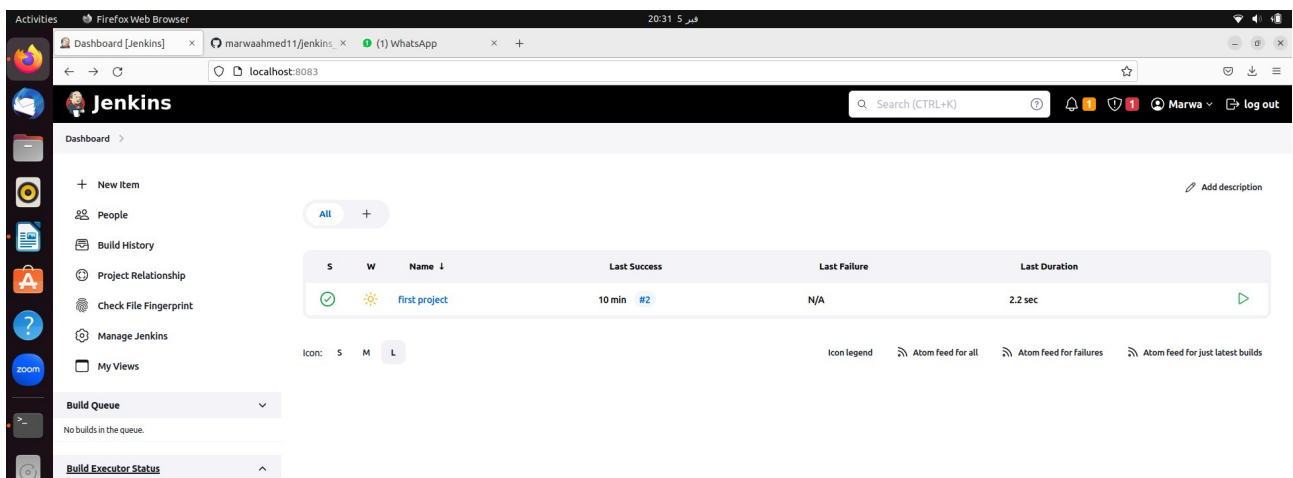
The screenshot shows the Jenkins 'Assign Roles' page. The left sidebar is similar to the previous page but includes 'LibreOffice Writer' under the 'People' section. The main content area is titled 'Assign Roles' and features a 'Global roles' table. This table lists roles 'Marwa', 'ahmed', and 'Anonymous' with checkboxes for 'read only role' and 'write role'. The 'Marwa' role has 'read only role' checked. Below the table is a 'User/group to add' input field and an 'Add' button. At the bottom, there is an 'Item roles' section with a 'User/group' table and another 'User/group to add' input field with 'Save' and 'Apply' buttons.

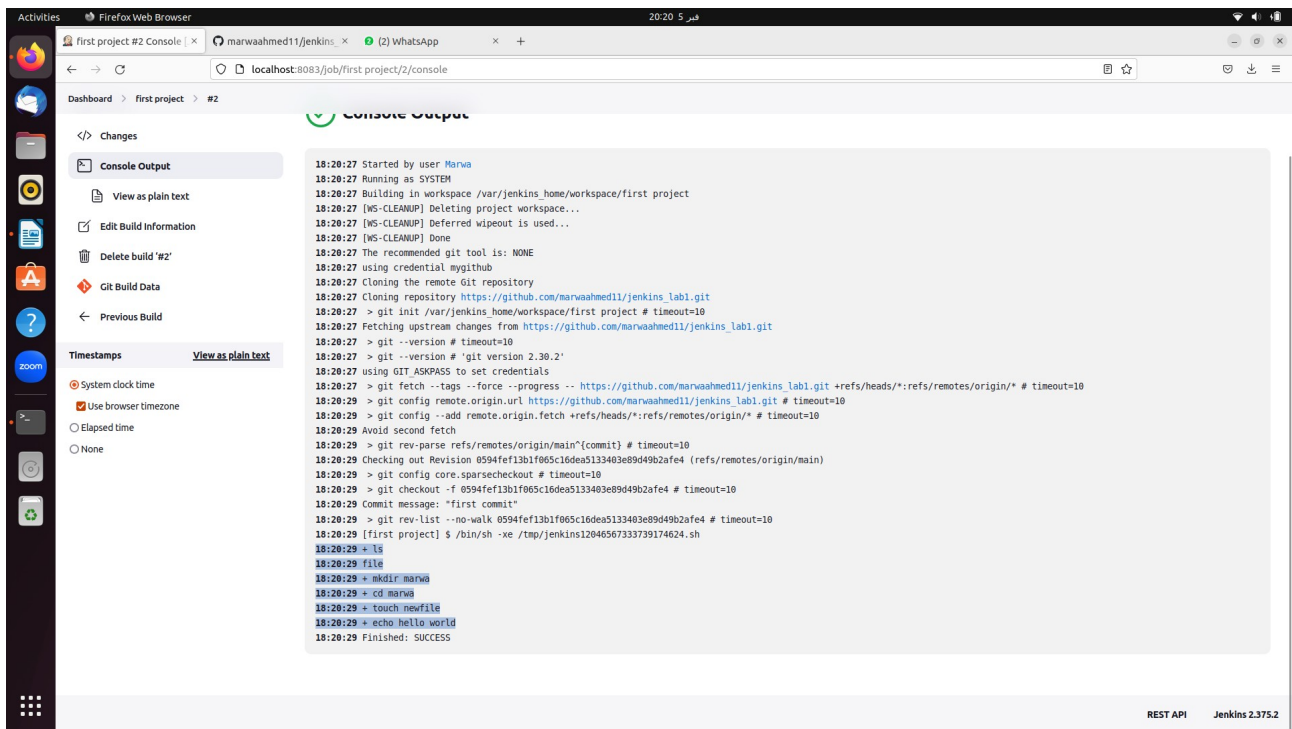
User/group	read only role	write role
Marwa	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ahmed	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Anonymous	<input type="checkbox"/>	<input type="checkbox"/>

login with new user

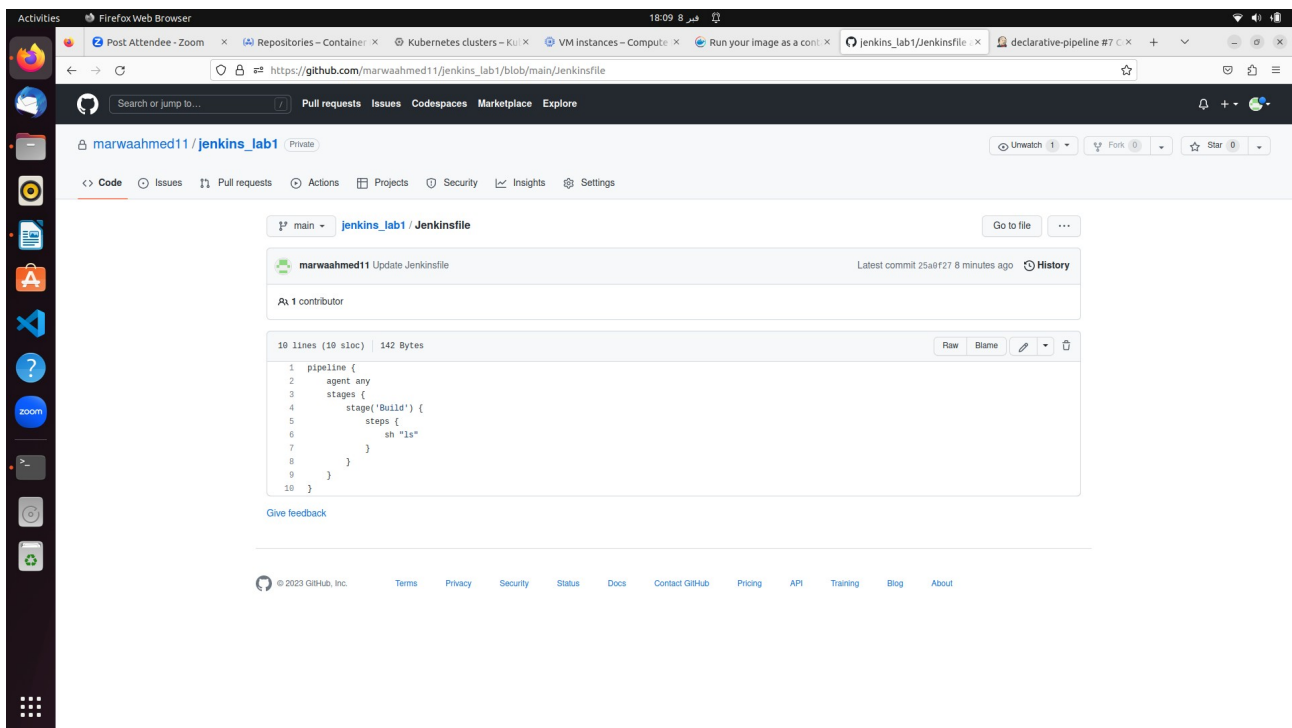


5. create free style pipeline in private repo





1- create declarative in jenkins GUI pipeline for your own repo to do "ls"



Activities Firefox Web Browser 18:08 8 فبراير

Post Attendee - Zoom x Repositories - Container x Kubernetes clusters - Kull x VM Instances - Compute x Run your image as a container x jenkins_lab1/jenkinsfile x Dashboard [Jenkins] x

localhost:8083

Jenkins

Search (CTRL+K)

log out

Dashboard

+ New Item

People

Build History

Project Relationship

Check File Fingerprint

Manage Jenkins

My Views

Build Queue

No builds in the queue.

Build Executor Status

built-in node (0 of 2 executors busy)

S	W	Name	Last Success	Last Failure	Last Duration
✓	☁	declarative-pipeline	2 min 2 sec #7	5 min 50 sec #6	7.7 sec
✓	☀	first project	2 days 21 hr #2	N/A	2.2 sec

Icon: S M L

Atom feed for all Atom feed for failures Atom feed for just latest builds

REST API Jenkins 2.375.2

Activities Firefox Web Browser 18:09 8 فبراير

Post Attendee - Zoom x Repositories - Container x Kubernetes clusters - Kull x VM Instances - Compute x Run your image as a container x jenkins_lab1/jenkinsfile x declarative-pipeline #7

localhost:8083/job/declarative-pipeline/7/console

declarative-pipeline #7

Status

Changes

Console Output

View as plain text

Edit Build Information

Delete build #7

Git Build Data

Restart from Stage

Replay

Pipeline Steps

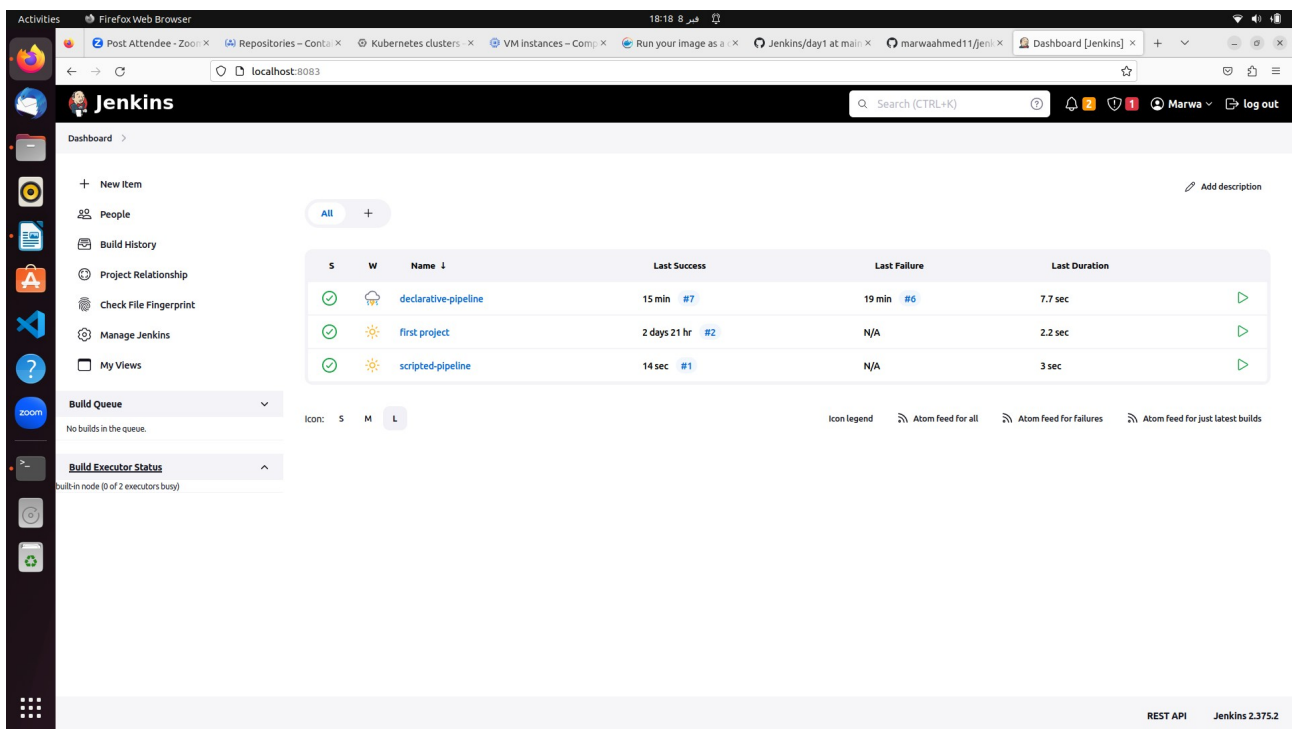
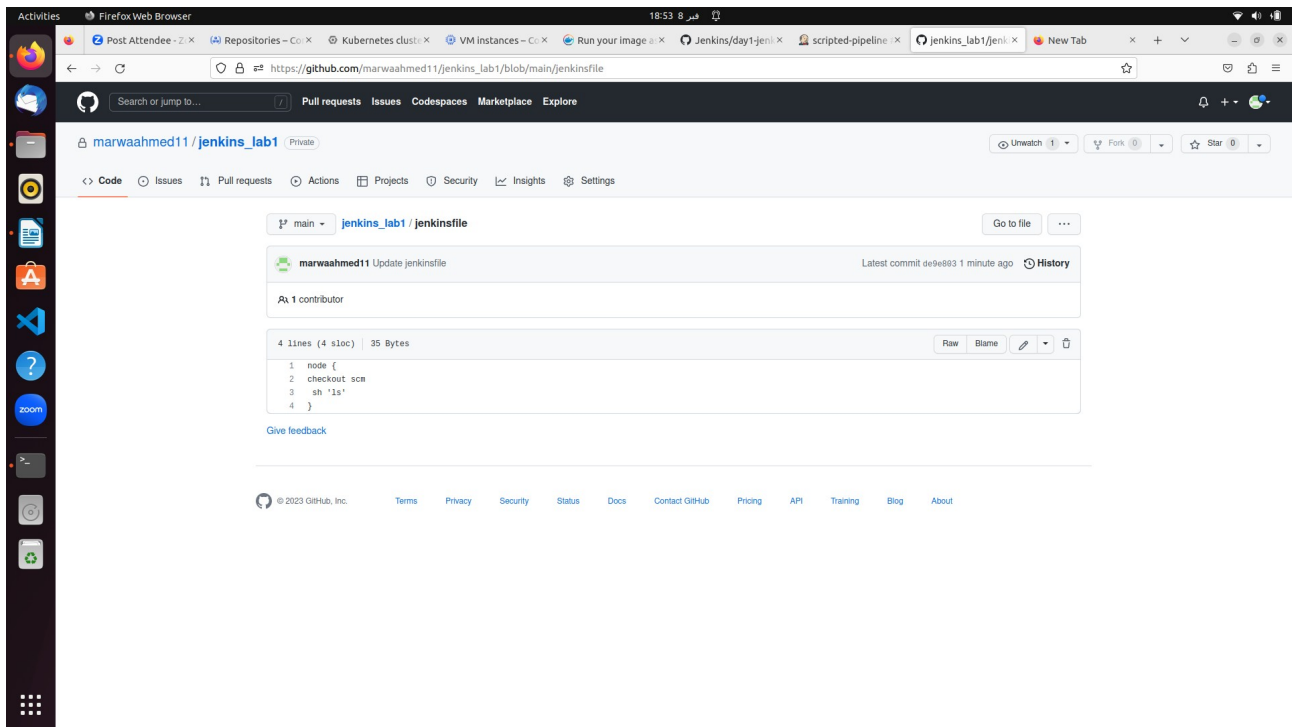
Workspaces

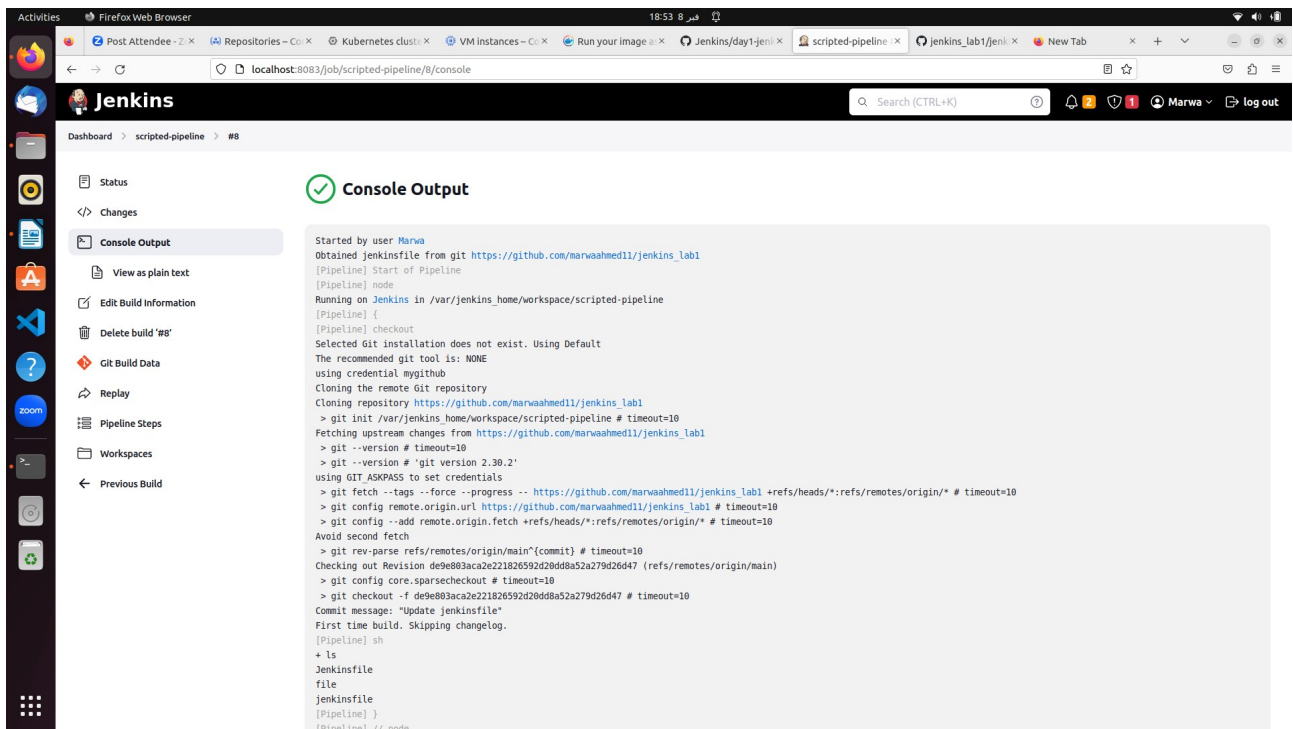
Previous Build

Console Output

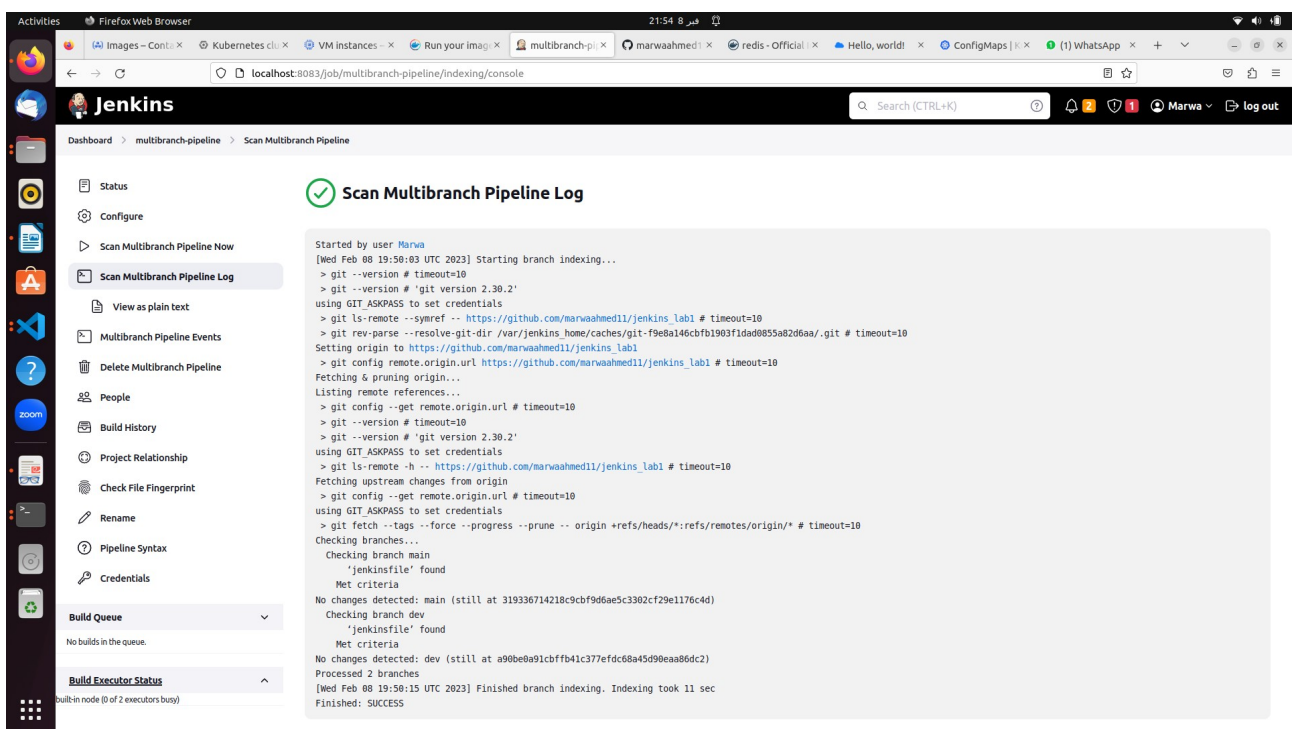
```
Started by user Marwa
Obtained Jenkinsfile from git https://github.com/marwaahmed11/jenkins_lab1
[Pipeline] node
Running on Jenkins in /var/jenkins_home/workspace/declarative-pipeline
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Declarative: Checkout SCM)
[Pipeline] checkout
Selected Git installation does not exist. Using Default
The recommended git tool is: NONE
using credential mygithub
Cloning the remote Git repository
Cloning repository https://github.com/marwaahmed11/jenkins_lab1
> git init /var/jenkins_home/workspace/declarative-pipeline # timeout=10
Fetching upstream changes from https://github.com/marwaahmed11/jenkins_lab1
> git --version # timeout=10
> git --version # 'git version 2.30.2'
using GIT_ASKPASS to set credentials
> git fetch --tags --force --progress -- https://github.com/marwaahmed11/jenkins_lab1 +refs/heads/*:refs/remotes/origin/* # timeout=10
> git config remote.origin.url https://github.com/marwaahmed11/jenkins_lab1 # 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 25a0f27628c93da0993eef7fa944327b985950d1 (refs/remotes/origin/main)
> git config core.sparsecheckout # timeout=10
> git checkout -f 25a0f27628c93da0993eef7fa944327b985950d1 # timeout=10
Commit message: "Update Jenkinsfile"
First time build. Skipping changelog.
[Pipeline] }
[Pipeline] // stage
[Pipeline] withEnv
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Build)
[Pipeline] sh
+ ls
```

2- create scripted in jenkins GUI pipeline for your own repo to do "ls"





3- create the same with jenkinsfile in your branches as multibranch pipeline



The screenshot displays the Jenkins web interface for a multibranch pipeline. The left sidebar lists various actions and settings. The main content area shows the pipeline's status, including a table of branches and sections for build queue and executor status.

S	W	Name ↓	Last Success	Last Failure	Last Duration
✓	☀	dev	5 min 23 sec #1	N/A	28 sec
✓	☀	main	5 min 23 sec #1	N/A	28 sec

Activities

Firefox Web Browser

21:53

🔊 🔌

🔍 Images - Cont...
Kubernetes cl...
VM Instances -
Run your imag...
Dashboard [J...
marwaahmed...
redis - Official...
Hello, world!...
ConfigMaps |...
(1) WhatsApp...
+
- 🔍 - ⌵ - ⌵ - ⌵

← → 📍 localhost:8083

🔍 Search (CTRL+K) 🔔 🔒 👤 Marwa 🚪 log out

🏠 Jenkins

Dashboard >

+ New Item

👤 People

📅 Build History

🔗 Project Relationship

🔍 Check File Fingerprint

⚙️ Manage Jenkins

📅 My Views

🚀 Build Queue

🔧 Build Executor Status

📝 Add description

S	W	Name ↓	Last Success	Last Failure	Last Duration	
🟢	☁️	declarative-pipeline	3 hr 50 min #7	3 hr 54 min #6	7.7 sec	▶️
🟢	☀️	first project	3 days 1 hr #2	N/A	2.2 sec	▶️
📄	☀️	multibranch-pipeline	2 min 54 sec log	N/A	11 sec	▶️
🟢	☁️	scripted-pipeline	3 hr 0 min #8	3 hr 10 min #4	13 sec	▶️

Icon: S M L

Icon legend Atom feed for all Atom feed for failures Atom feed for just latest builds

No builds in the queue.

Build-in node (0 of 2 executors busy)

REST API Jenkins 2.375.2