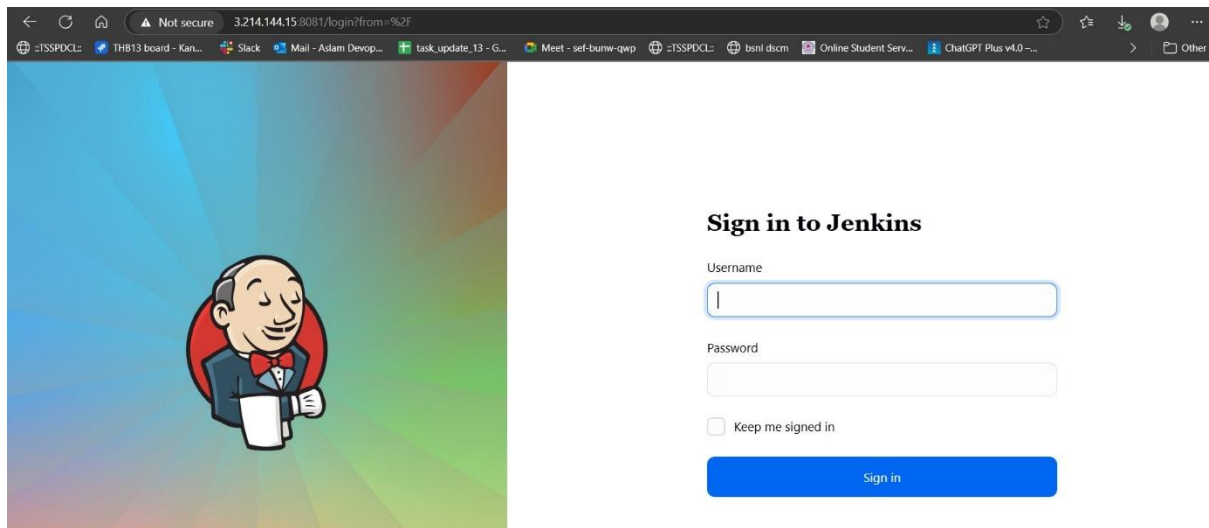


1) Install jenkins and run jenkins on port number 8081.



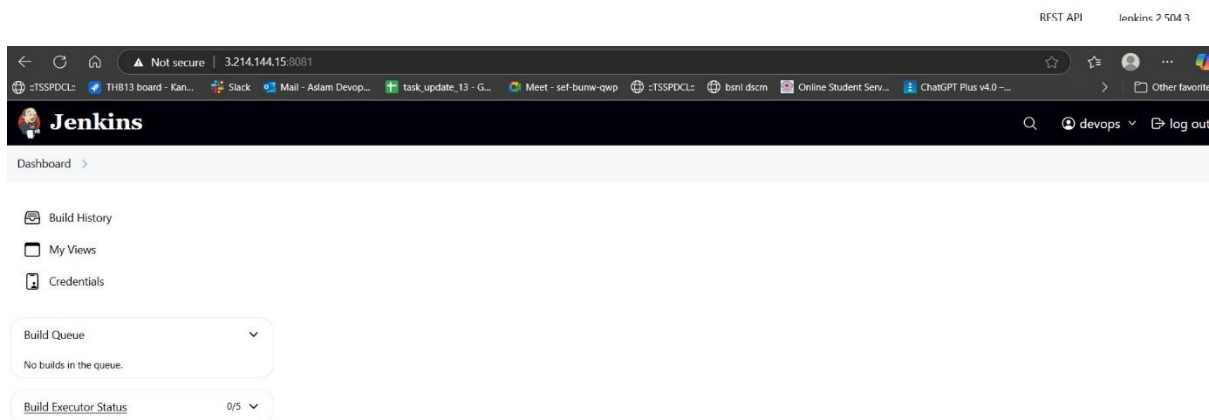
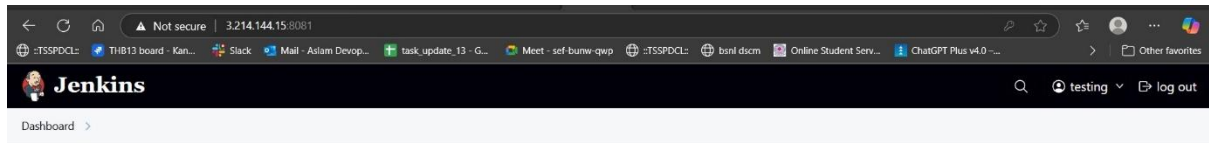
2) Secure Jenkins server

Removed initialadminpassword and deleted file

Created new password for admin

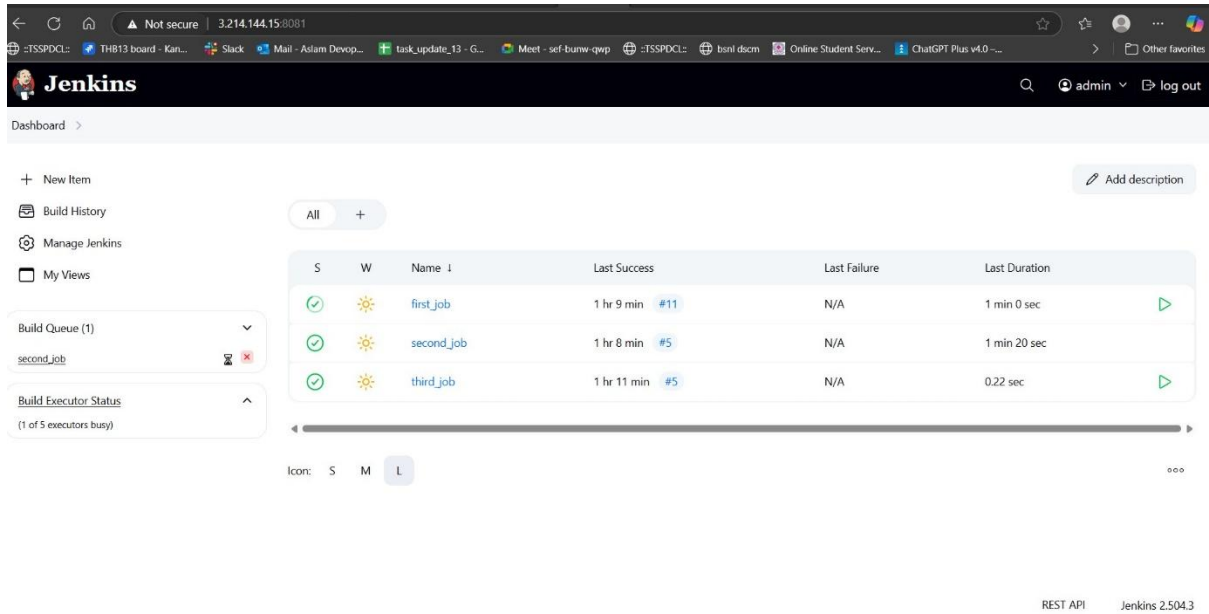
In this way I had secured my jenkins server

3) Create users called Devops, Testing in Jenkins with Limited access.



4) Configure labels and restrict the jobs to execute based on label only.

First job is being executed as the label is available and second is waiting in queue as the label attached is not available



The screenshot shows the Jenkins dashboard with a table of jobs in the queue. The jobs are 'first_job', 'second_job', and 'third_job'. 'first_job' and 'third_job' are running, while 'second_job' is waiting. The 'Build Executor Status' shows 1 of 5 executors busy.

S	W	Name	Last Success	Last Failure	Last Duration
✓	☀	first_job	1 hr 9 min #11	N/A	1 min 0 sec
✓	☀	second_job	1 hr 8 min #5	N/A	1 min 20 sec
✓	☀	third_job	1 hr 11 min #5	N/A	0.22 sec

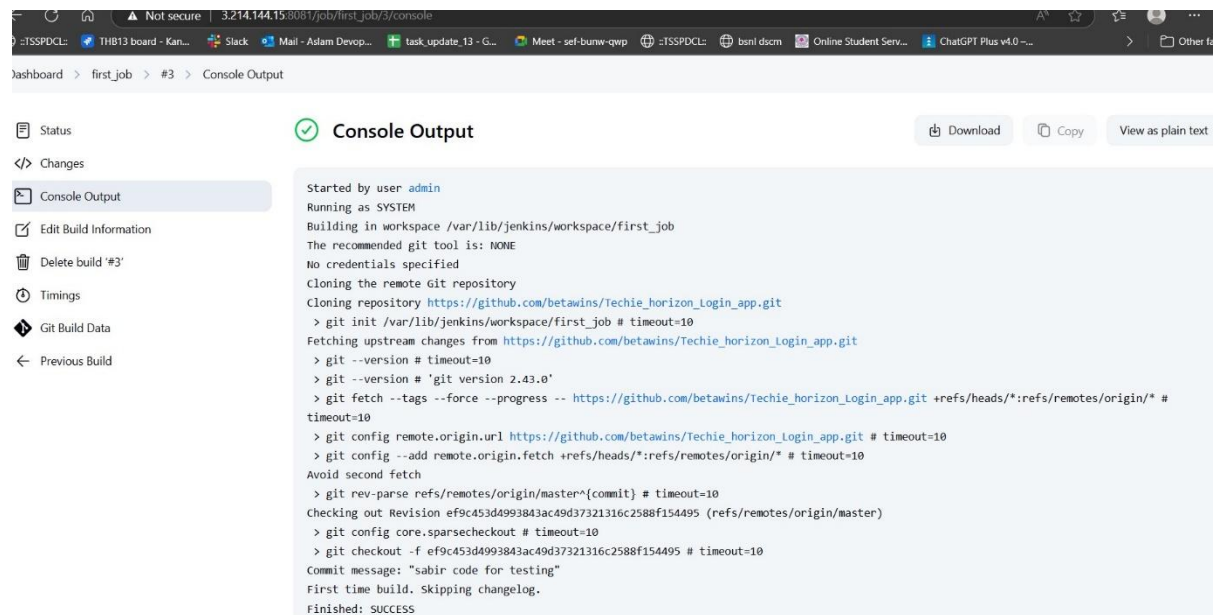
Build Queue (1)
second_job

Build Executor Status
(1 of 5 executors busy)

REST API Jenkins 2.504.3

5) Create Three sample jobs using the below URL.

https://github.com/betawins/Techie_horizon_Login_app.git



Dashboard > first_job > #3 > Console Output

Status

Changes

Console Output

Edit Build Information

Delete build '#3'

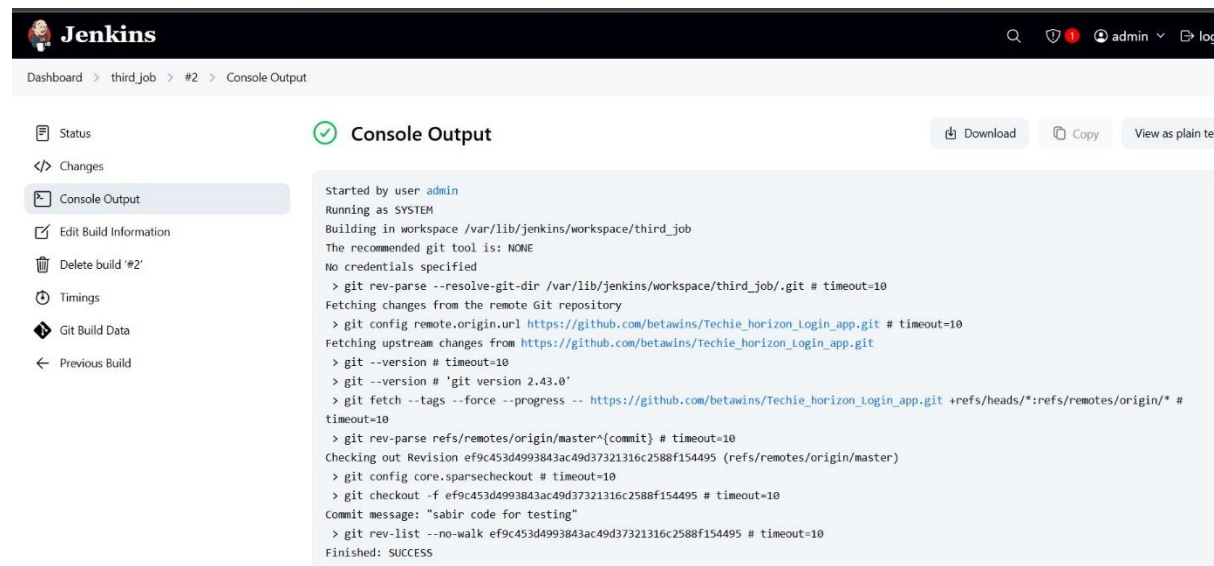
Timings

Git Build Data

Previous Build

Console Output

```
Started by user admin
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/first_job
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/betawins/Techie_horizon_Login_app.git
> git init /var/lib/jenkins/workspace/first_job # timeout=10
Fetching upstream changes from https://github.com/betawins/Techie_horizon_Login_app.git
> git --version # timeout=10
> git --version # 'git version 2.43.0'
> git fetch --tags --force --progress -- https://github.com/betawins/Techie_horizon_Login_app.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git config remote.origin.url https://github.com/betawins/Techie_horizon_Login_app.git # timeout=10
> git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
> git rev-parse refs/remotes/origin/master^{commit} # timeout=10
Checking out Revision ef9c453d4993843ac49d37321316c2588f154495 (refs/remotes/origin/master)
> git config core.sparsecheckout # timeout=10
> git checkout -f ef9c453d4993843ac49d37321316c2588f154495 # timeout=10
Commit message: "sabr code for testing"
First time build. Skipping changelog.
Finished: SUCCESS
```



Jenkins

Dashboard > third_job > #2 > Console Output

Status

Changes

Console Output

Edit Build Information

Delete build '#2'

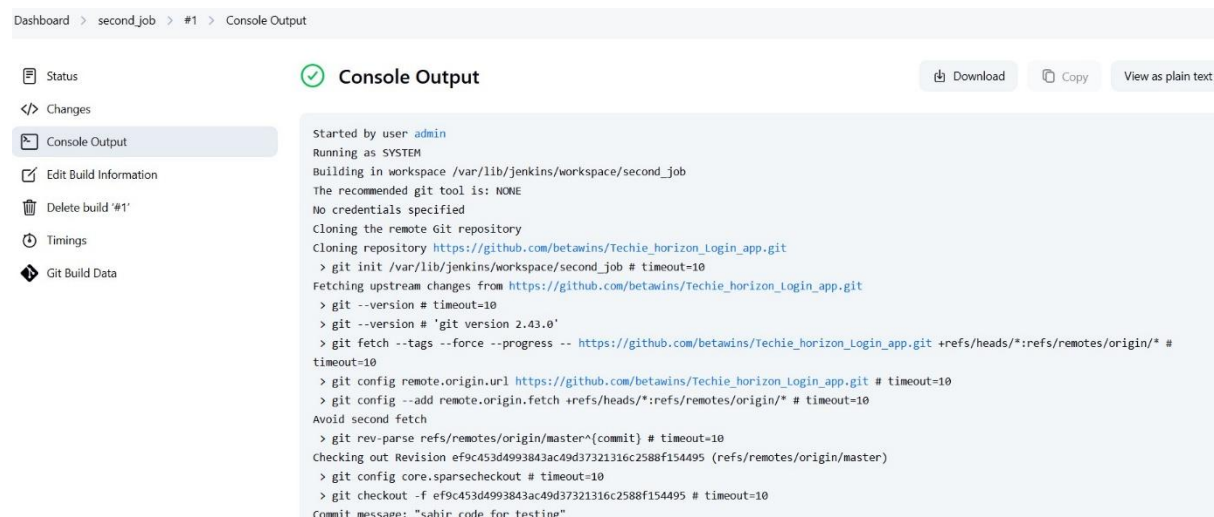
Timings

Git Build Data

Previous Build

Console Output

```
Started by user admin
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/third_job
The recommended git tool is: NONE
No credentials specified
> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/third_job/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/betawins/Techie_horizon_Login_app.git # timeout=10
Fetching upstream changes from https://github.com/betawins/Techie_horizon_Login_app.git
> git --version # timeout=10
> git --version # 'git version 2.43.0'
> git fetch --tags --force --progress -- https://github.com/betawins/Techie_horizon_Login_app.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/master^{commit} # timeout=10
Checking out Revision ef9c453d4993843ac49d37321316c2588f154495 (refs/remotes/origin/master)
> git config core.sparsecheckout # timeout=10
> git checkout -f ef9c453d4993843ac49d37321316c2588f154495 # timeout=10
Commit message: "sabr code for testing"
> git rev-list --no-walk ef9c453d4993843ac49d37321316c2588f154495 # timeout=10
Finished: SUCCESS
```



Dashboard > second_job > #1 > Console Output

Status

Changes

Console Output

Edit Build Information

Delete build '#1'

Timings

Git Build Data

Console Output

```
Started by user admin
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/second_job
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/betawins/Techie_horizon_Login_app.git
> git init /var/lib/jenkins/workspace/second_job # timeout=10
Fetching upstream changes from https://github.com/betawins/Techie_horizon_Login_app.git
> git --version # timeout=10
> git --version # 'git version 2.43.0'
> git fetch --tags --force --progress -- https://github.com/betawins/Techie_horizon_Login_app.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git config remote.origin.url https://github.com/betawins/Techie_horizon_Login_app.git # timeout=10
> git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
> git rev-parse refs/remotes/origin/master^{commit} # timeout=10
Checking out Revision ef9c453d4993843ac49d37321316c2588f154495 (refs/remotes/origin/master)
> git config core.sparsecheckout # timeout=10
> git checkout -f ef9c453d4993843ac49d37321316c2588f154495 # timeout=10
Commit message: "sabr code for testing"
```

6) Create one jenkins job using git hub Private repository.

Dashboard > fourth_job > Configuration

Configure

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

☐ None

☒ Git ?

Repositories ?

Repository URL ?

<https://github.com/alsamdevops/aslamloginapp.git>

Credentials ?

alsamdevops/***** (pat)

+ Add

Advanced ▾

Add Repository

Branches to build ?

Branch Specifier (blank for 'any') ?

Save Apply

✓ Console Output

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```
Started by user admin
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/fourth_job
The recommended git tool is: NONE
using credential id
Cloning the remote Git repository
Cloning repository https://github.com/alsamdevops/aslamloginapp.git
> git init /var/lib/jenkins/workspace/fourth_job # timeout=10
Fetching upstream changes from https://github.com/alsamdevops/aslamloginapp.git
> git --version # timeout=10
> git --version # 'git version 2.43.0'
using GIT_ASKPASS to set credentials pat
> git fetch --tags --force --progress -- https://github.com/alsamdevops/aslamloginapp.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git config remote.origin.url https://github.com/alsamdevops/aslamloginapp.git # timeout=10
> git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
> git rev-parse refs/remotes/origin/master^{commit} # timeout=10
Checking out Revision 05c7fc3cd7e103f9dd5a5b1cb9742f78d5107ff7 (refs/remotes/origin/master)
> git config core.sparsecheckout # timeout=10
> git checkout -f 05c7fc3cd7e103f9dd5a5b1cb9742f78d5107ff7 # timeout=10
Commit message: " aslam"
First time build. Skipping changelog.
Finished: SUCCESS
```

```
root@ip-172-31-11-230:/var/lib/jenkins/workspace# ll
total 28
drwxr-xr-x 7 jenkins jenkins 4096 Jun 26 14:18 ./
drwxr-xr-x 16 jenkins jenkins 4096 Jun 26 14:19 ../
drwxr-xr-x 6 jenkins jenkins 4096 Jun 26 10:40 first_job/
drwxr-xr-x 6 jenkins jenkins 4096 Jun 26 14:18 fourth_job/
drwxr-xr-x 2 jenkins jenkins 4096 Jun 26 14:18 'fourth_job@tmp'/
drwxr-xr-x 6 jenkins jenkins 4096 Jun 26 10:36 second_job/
drwxr-xr-x 6 jenkins jenkins 4096 Jun 26 11:20 third_job/
root@ip-172-31-11-230:/var/lib/jenkins/workspace# cd fourth_job
root@ip-172-31-11-230:/var/lib/jenkins/workspace/fourth_job# ll
total 44
drwxr-xr-x 6 jenkins jenkins 4096 Jun 26 14:18 ./
drwxr-xr-x 7 jenkins jenkins 4096 Jun 26 14:18 ../
drwxr-xr-x 8 jenkins jenkins 4096 Jun 26 14:18 .git/
drwxr-xr-x 3 jenkins jenkins 4096 Jun 26 14:18 .github/
-rw-r--r-- 1 jenkins jenkins 137 Jun 26 14:18 Dockerfile
-rw-r--r-- 1 jenkins jenkins 979 Jun 26 14:18 README.md
drwxr-xr-x 2 jenkins jenkins 4096 Jun 26 14:18 ansible/
-rw-r--r-- 1 jenkins jenkins 508 Jun 26 14:18 azure-pipelines.yml
-rw-r--r-- 1 jenkins jenkins 5830 Jun 26 14:18 pom.xml
drwxr-xr-x 4 jenkins jenkins 4096 Jun 26 14:18 src/
root@ip-172-31-11-230:/var/lib/jenkins/workspace/fourth_job#
```