

# STEPS TO SETUP JENKINS USING AWS CONSOLE

**STEP-1:** Launch an instance with 8080 port number in security group.

**STEP-2:** Install dependency (JAVA) `yum install java -y`.

**STEP-3:** Go to JENKINS.IO and get the repo of top 2 links and paste it on server or

**The command provided is used to download the Jenkins repository file:**

```
sudo wget -O /etc/yum.repos.d/jenkins.repo https://pkg.jenkins.io/redhat-stable/jenkins.repo
```

**Import the Jenkins GPG key to ensure the authenticity of the packages:**

```
sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io.key
```

**STEP-4: Install jenkins :** `yum install jenkins -y`.

**STEP-5: Start the jenkins :** `systemctl start jenkins`.

**STEP-6: Check the status of jenkins :** `systemctl status jenkins`.

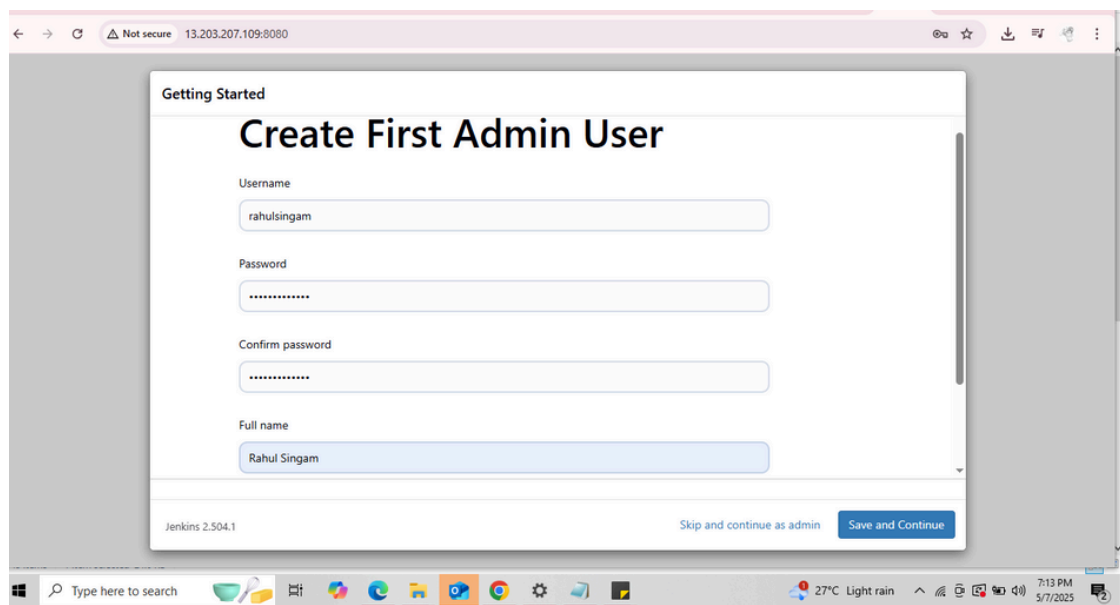
## **STEP-7: Access Jenkins**

Open a web browser and navigate to `http://your_server_ip_or_domain:8080`. Follow the on-screen instructions to complete the setup.

To ensure Jenkins is securely set up by the administrator, a password has been written to the log (not sure where to find it?) and this file path on the server:

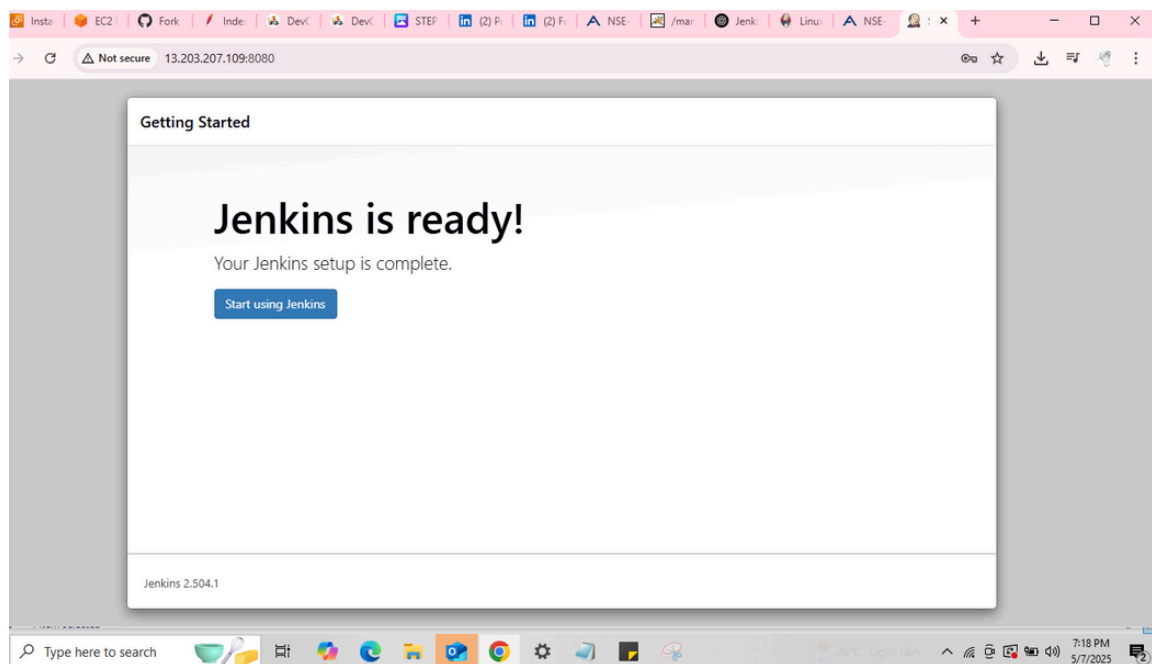
**how to call it:** `/var/lib/jenkins/secrets/initialAdminPassword`.

**Create username and password to access.**

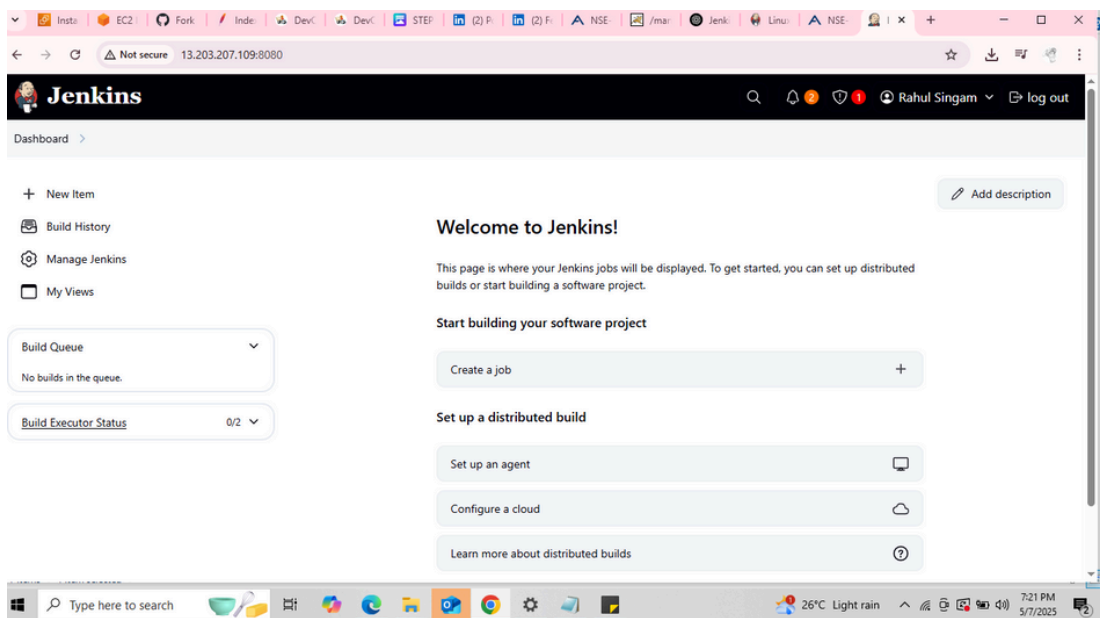


## Configure instance by giving jenkins url

call : jenkins url : [http://ip\\_address:8080/](http://ip_address:8080/)

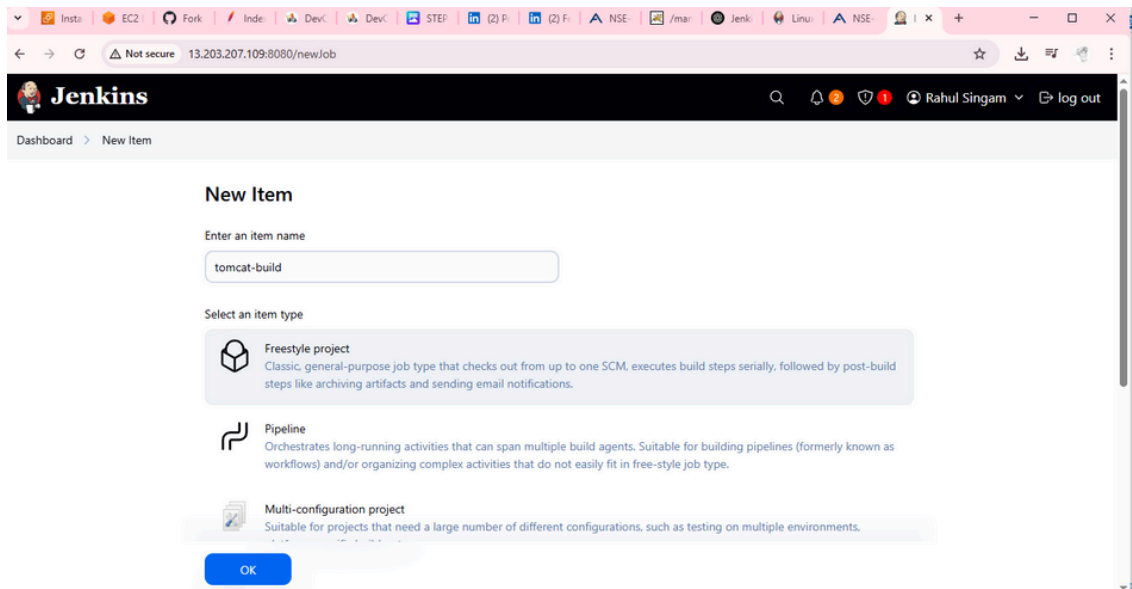


## Create a Jenkins Job



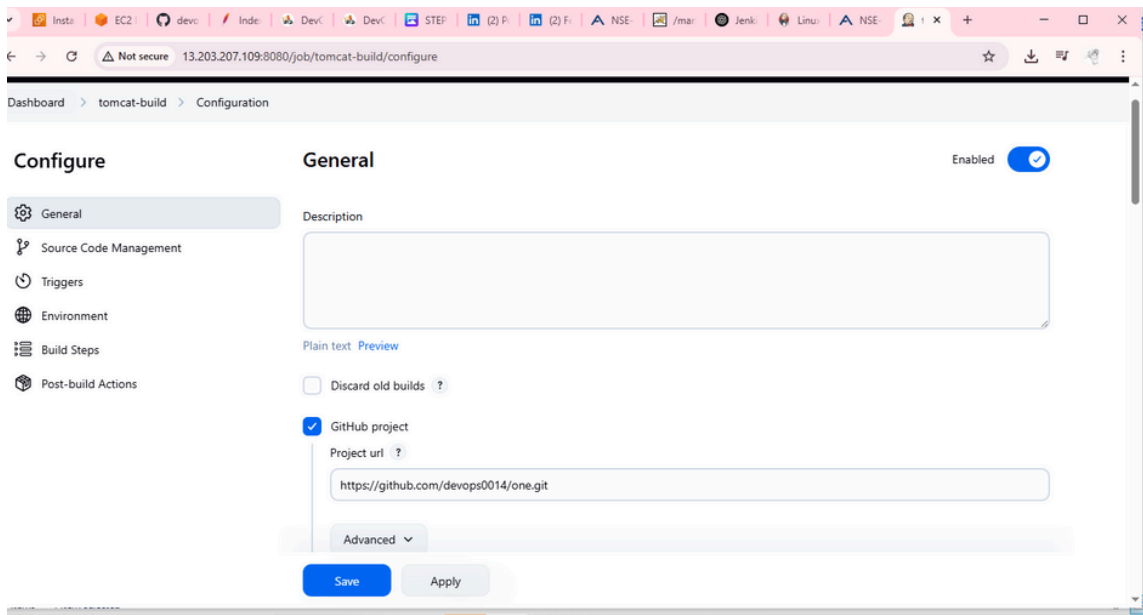
## Give a Job Name

Mostly we use freestyle project (as a free tier user).

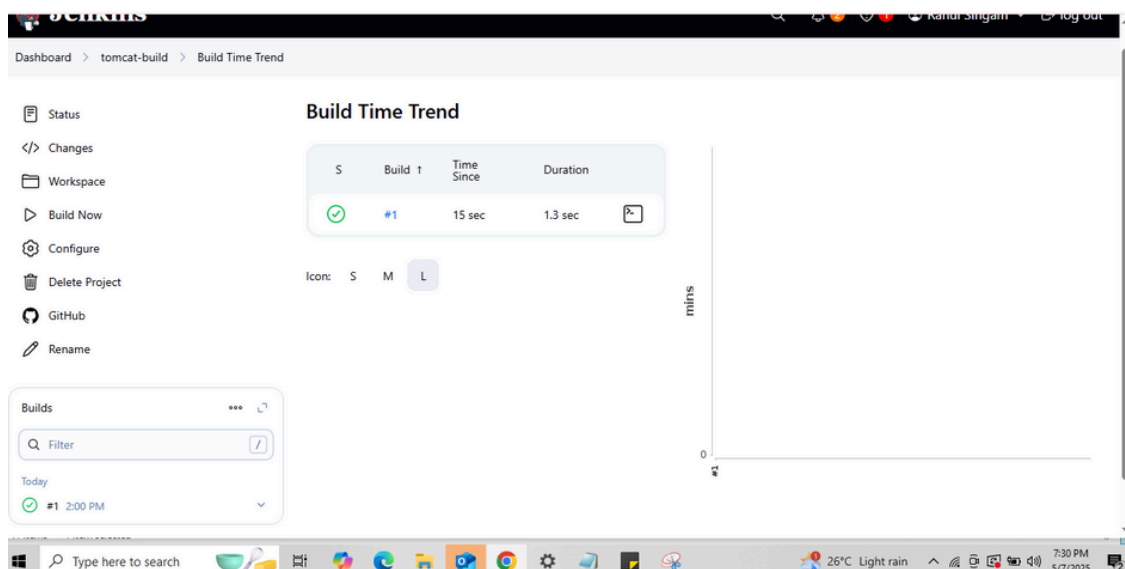


## In General GitHub project & Source Code Management

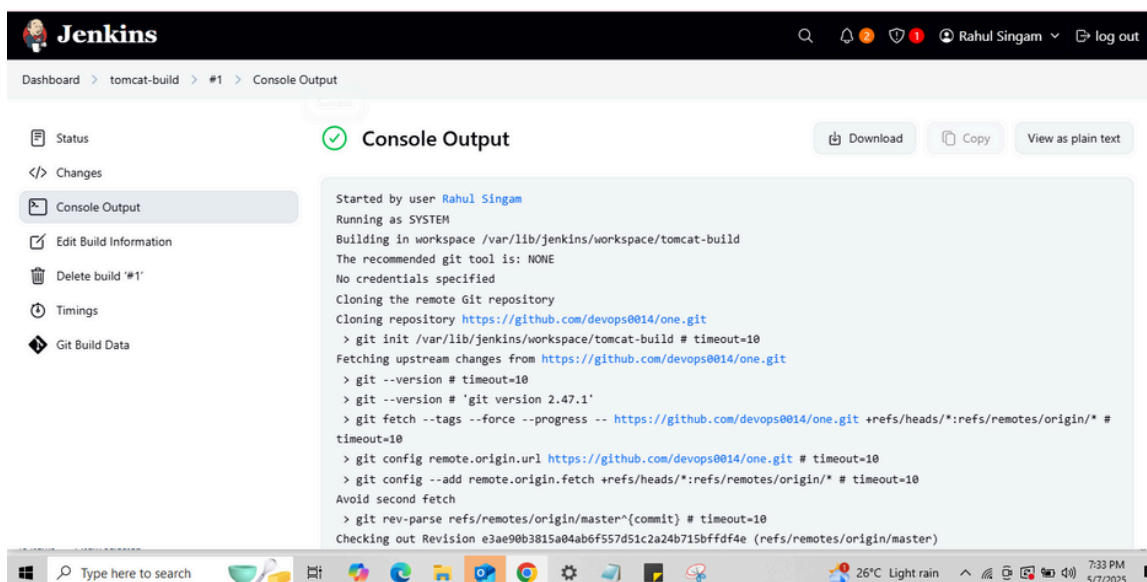
GitHub project url and in Source Code Management Repo url have to be given same.



## Build a Job.

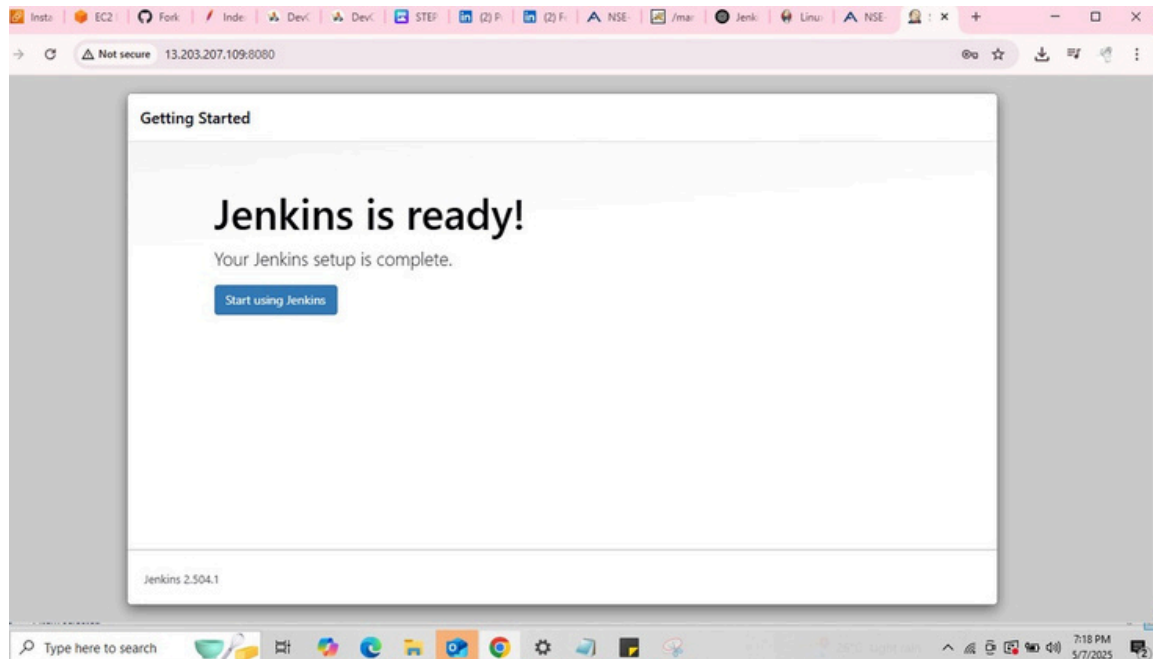


## Console Output

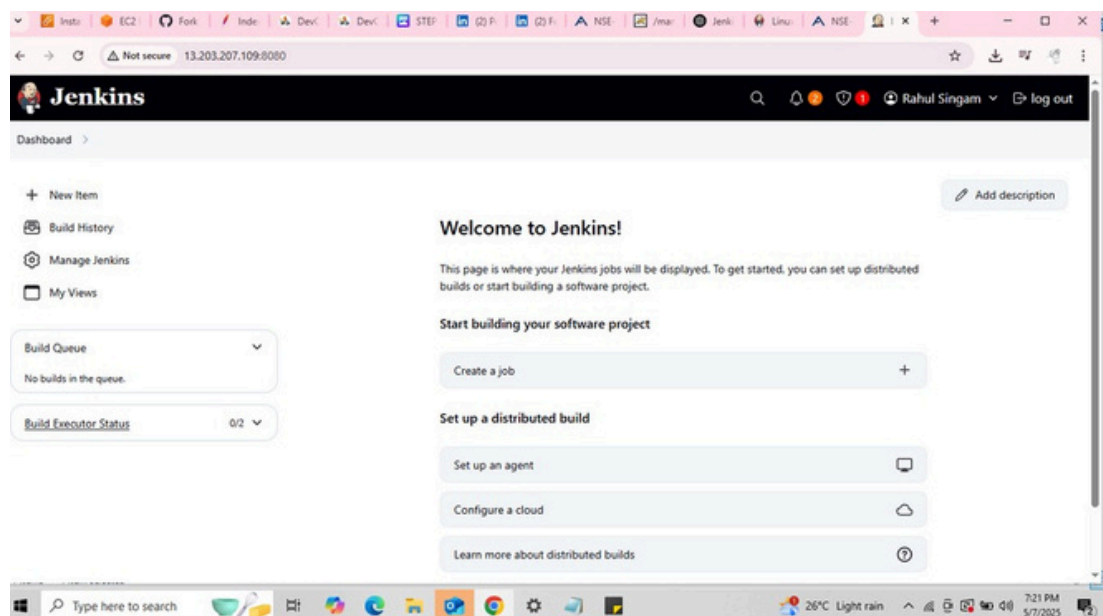


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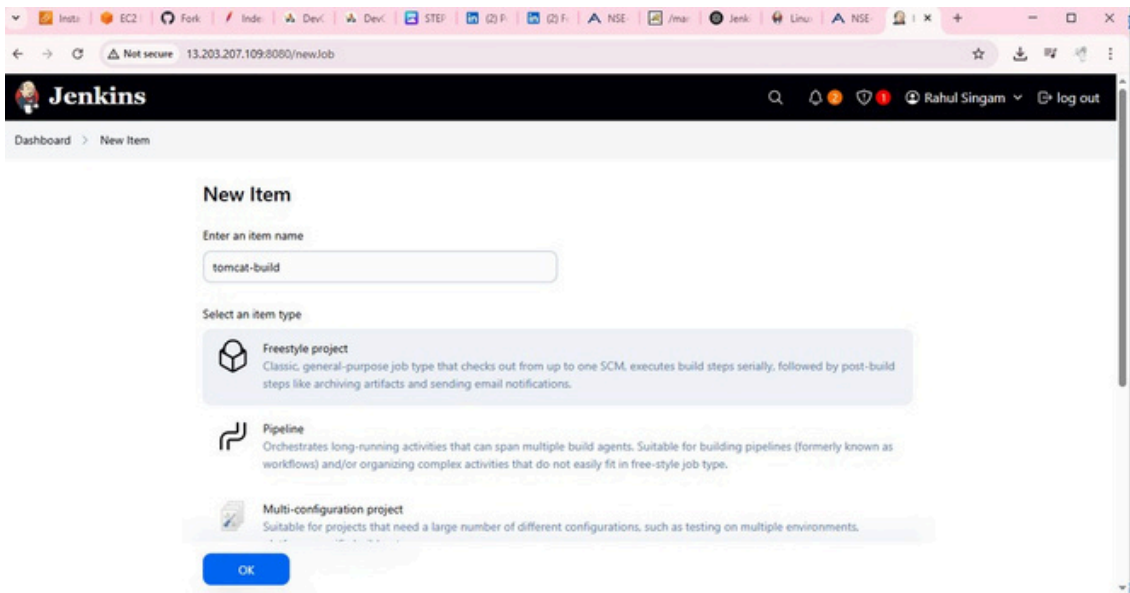


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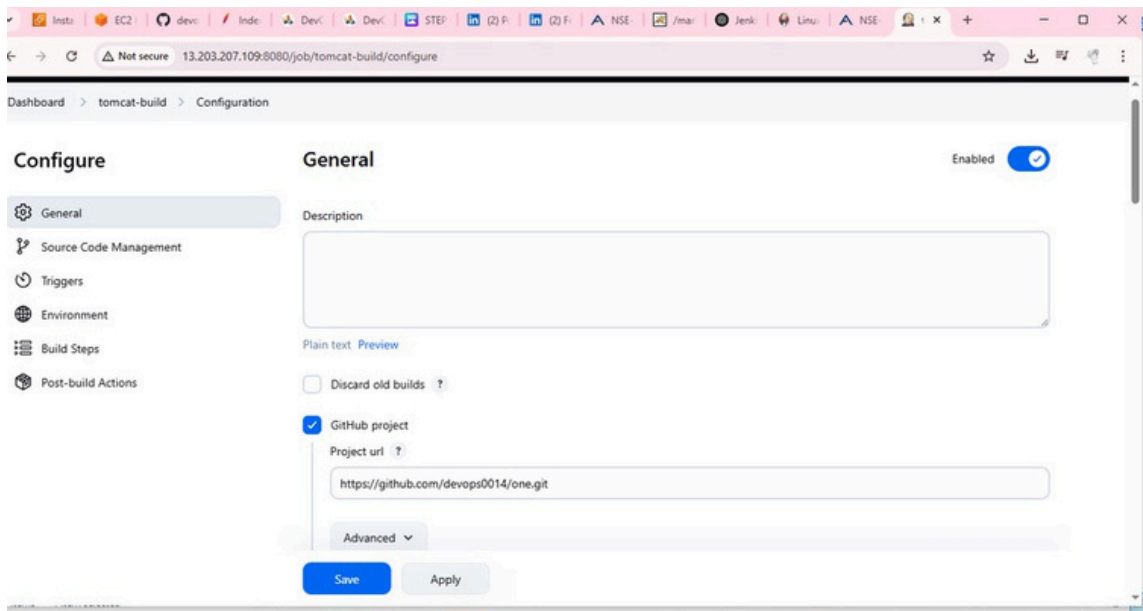
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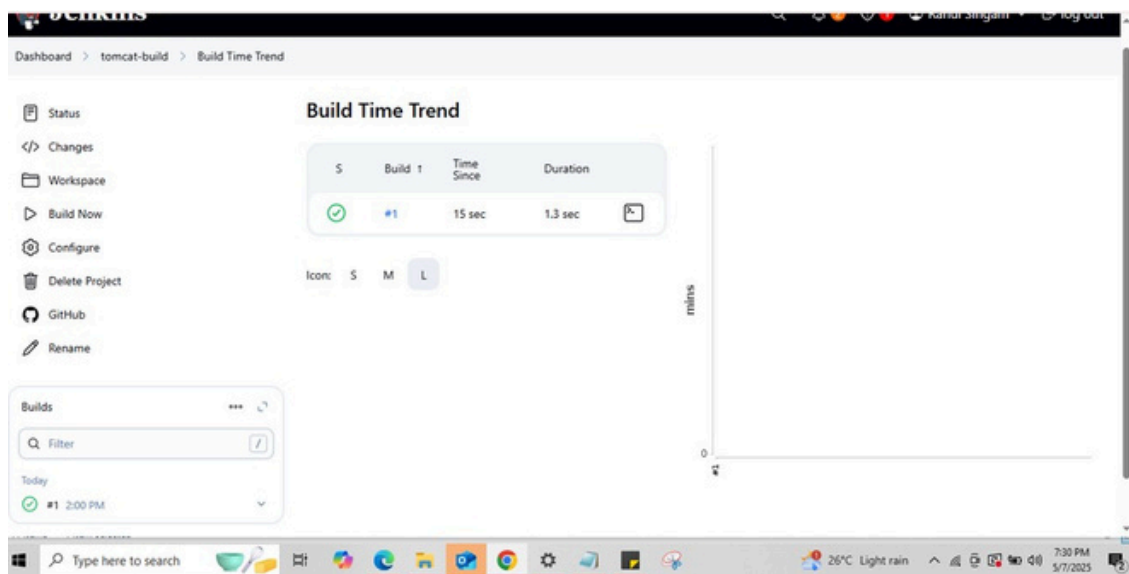


## In General GitHub project & Source Code Management

GitHub project url and in Source Code Management Repo url have to be given same.



## Build a Job.



## Console Output

The screenshot shows the Jenkins 'Console Output' page for the 'tomcat-build' project, build '#1'. The left sidebar contains navigation links: Status, Changes, Console Output, Edit Build Information, Delete build '#1', Timings, and Git Build Data. The main area displays the console output, which includes the following text:

```
Started by user Rahul Singam
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/tomcat-build
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/devops0014/one.git
> git init /var/lib/jenkins/workspace/tomcat-build # timeout=10
Fetching upstream changes from https://github.com/devops0014/one.git
> git --version # timeout=10
> git --version # 'git version 2.47.1'
> git fetch --tags --force --progress -- https://github.com/devops0014/one.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git config remote.origin.url https://github.com/devops0014/one.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 e3ae90b3815a84ab6f557d51c2a24b715bffd4e (refs/remotes/origin/master)
```