Improve Jenkins Speed and Run Periodic Job on AWS EC2

Note: Restarting the EC2 instance may cause Jenkins to load slowly as it initializes. To speed this up:

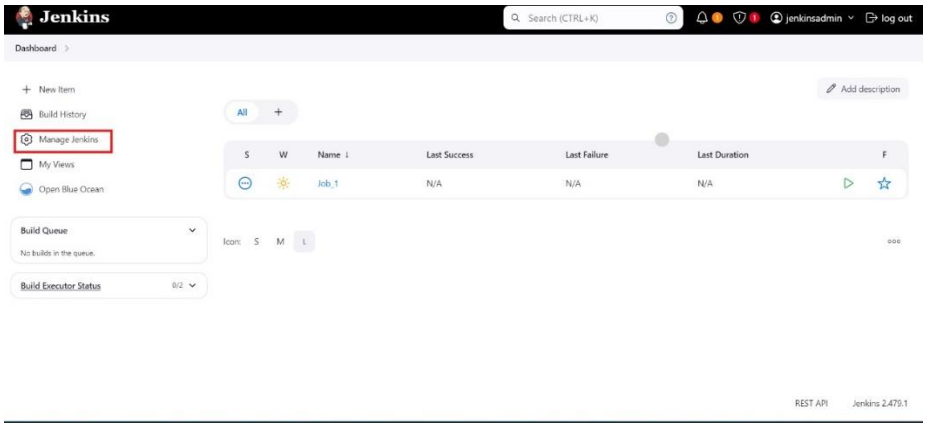
Steps to Configure Jenkins and Set Up a Periodic Job

1. Log in to Jenkins:

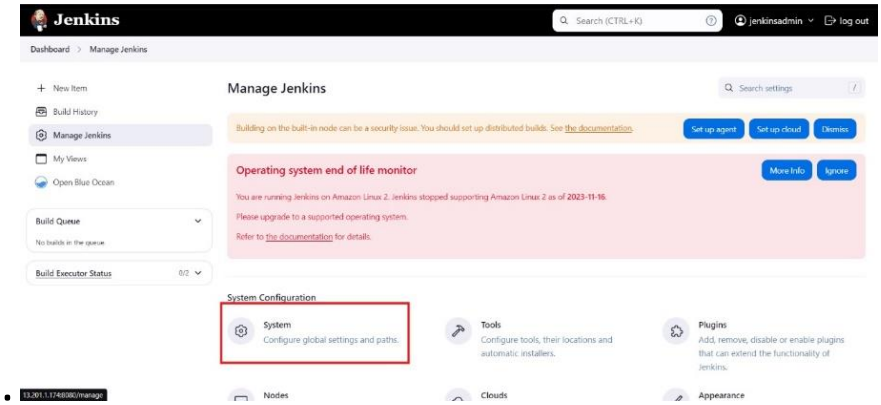
- Open Jenkins in your browser and log in with your username and password.

2. Update Jenkins URL:

- Go to Manage Jenkins on the dashboard.



- Click on System



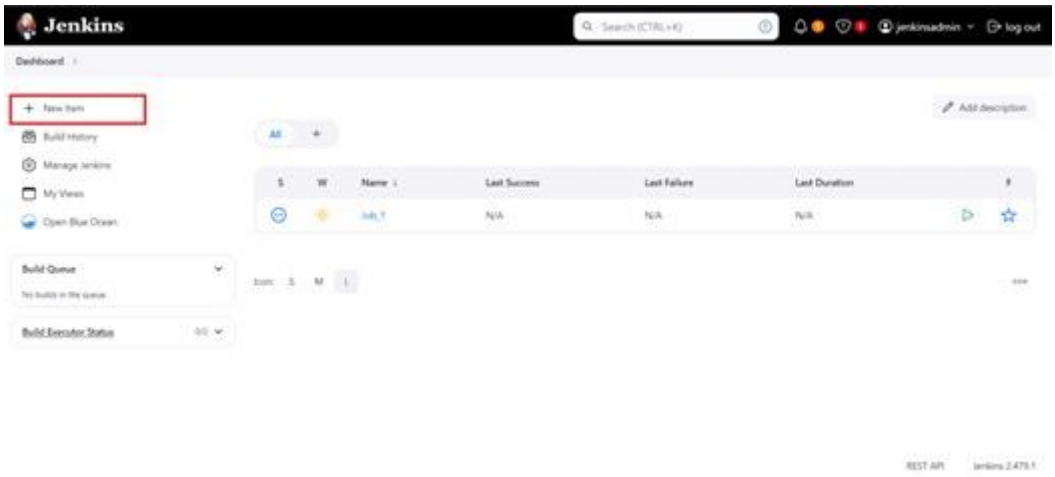
- Update the Jenkins URL field with the current IP or domain of your AWS EC2 instance, then Save.

Creating the FreeStyle Job

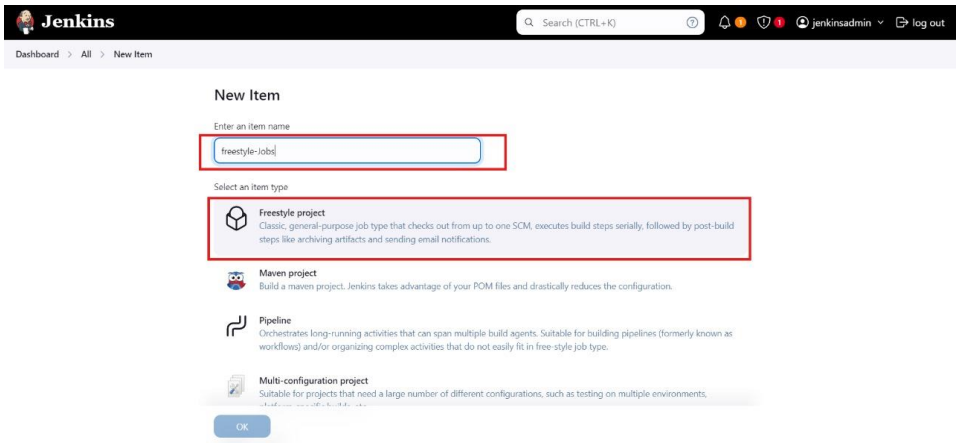
(Part 2)

1. Create a New Free Style:

- On the Jenkins dashboard, click New Item.



- Enter a job name (e.g."freestyle-jobs").



- Select Freestyle Project and click OK.

2. Configure the Job:

Set Up a Build Trigger:

- In the job configuration page, scroll to Build Triggers.

- Select Build periodically and enter the cron schedule */1 * * * *

- This schedule triggers the job every minute.

Add the Build Step:

- Scroll to the Build section, click Add build step, and choose Execute shell.

- In the shell command box, enter:

bash

#!/bin/bash

ping -c 20 www.google.com

3. Save and Run the Job:

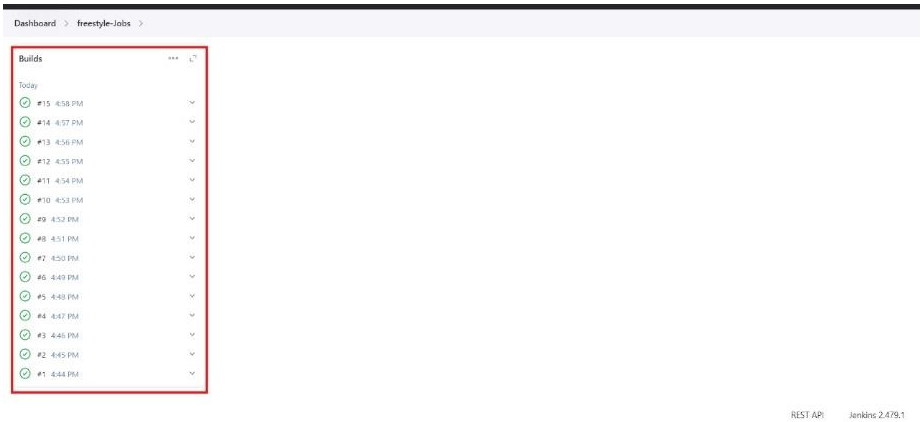
- Click Save to apply the configuration.

- The job will now run automatically every minute.

4. Check the Output:

- In Build History on the job's page, click the latest build number to view Console Output.

- You'll see the results of the ping command, showing connectivity to www.google.com



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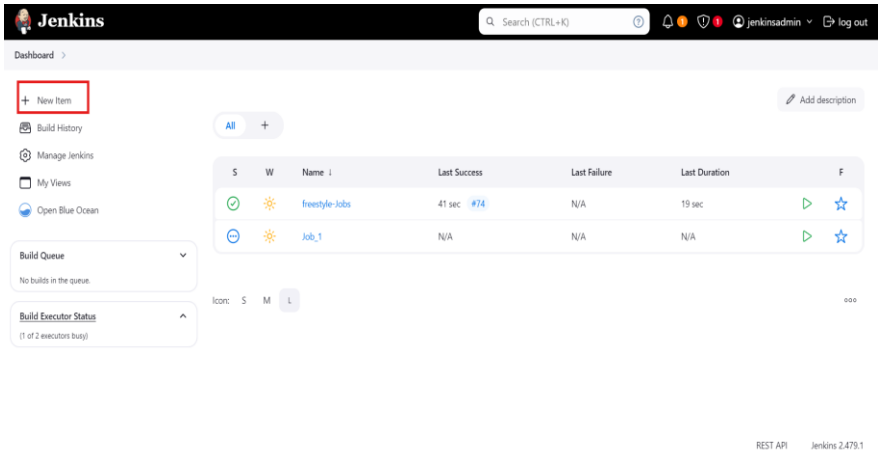
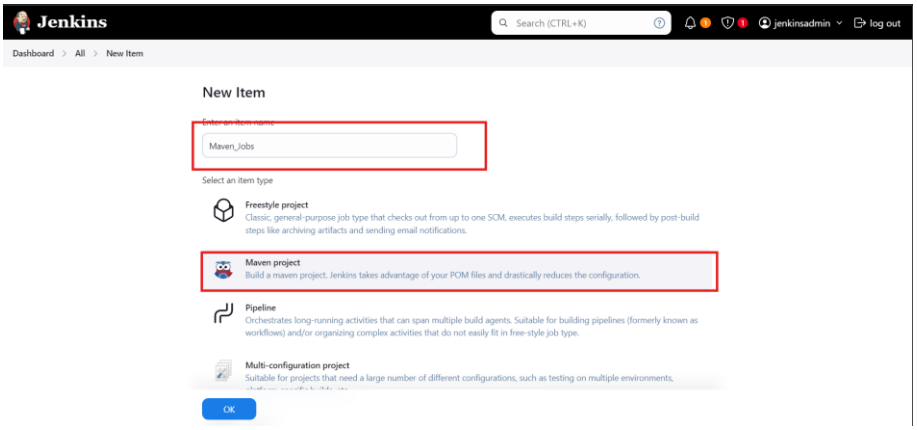
To Create the Maven Job in Jenkins

(Part 3)

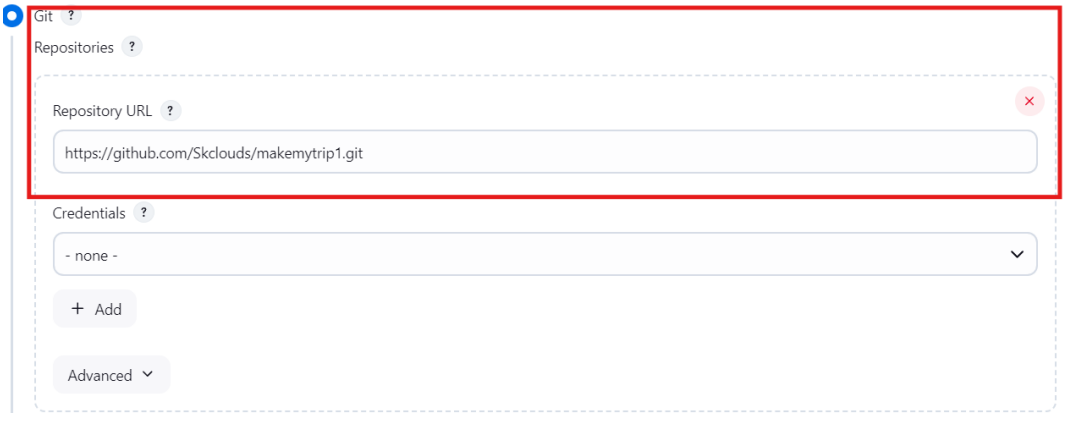
1. First click on the New Item



2. Name the Job “Maven_Job” and select Maven Project

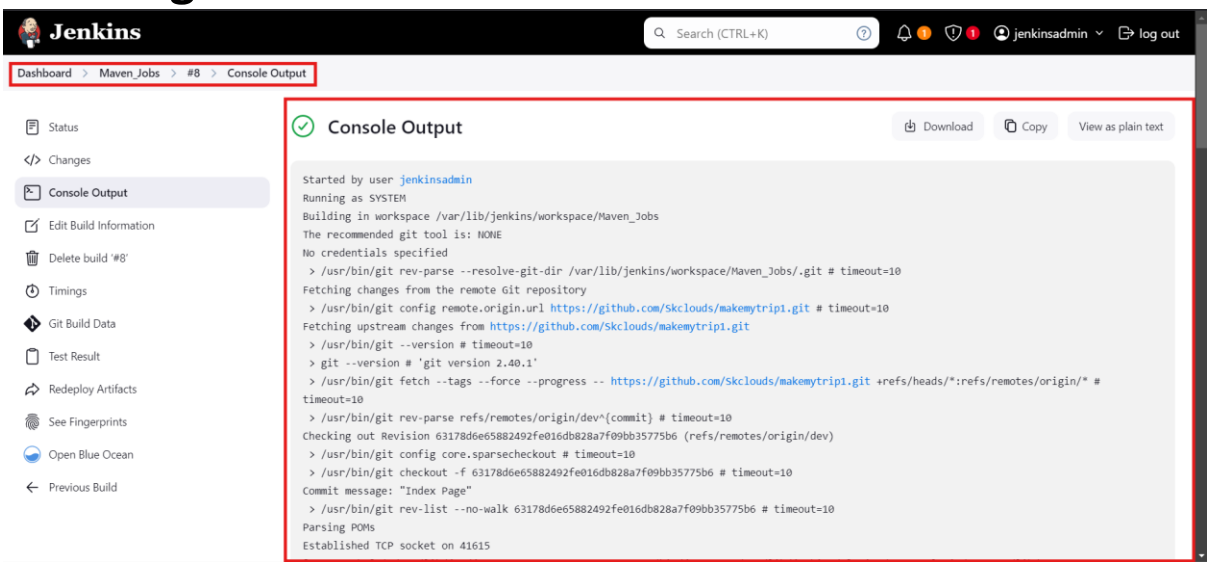


3. Add the Git hub repo where the Code is present



4. **Add the branch we have to create**

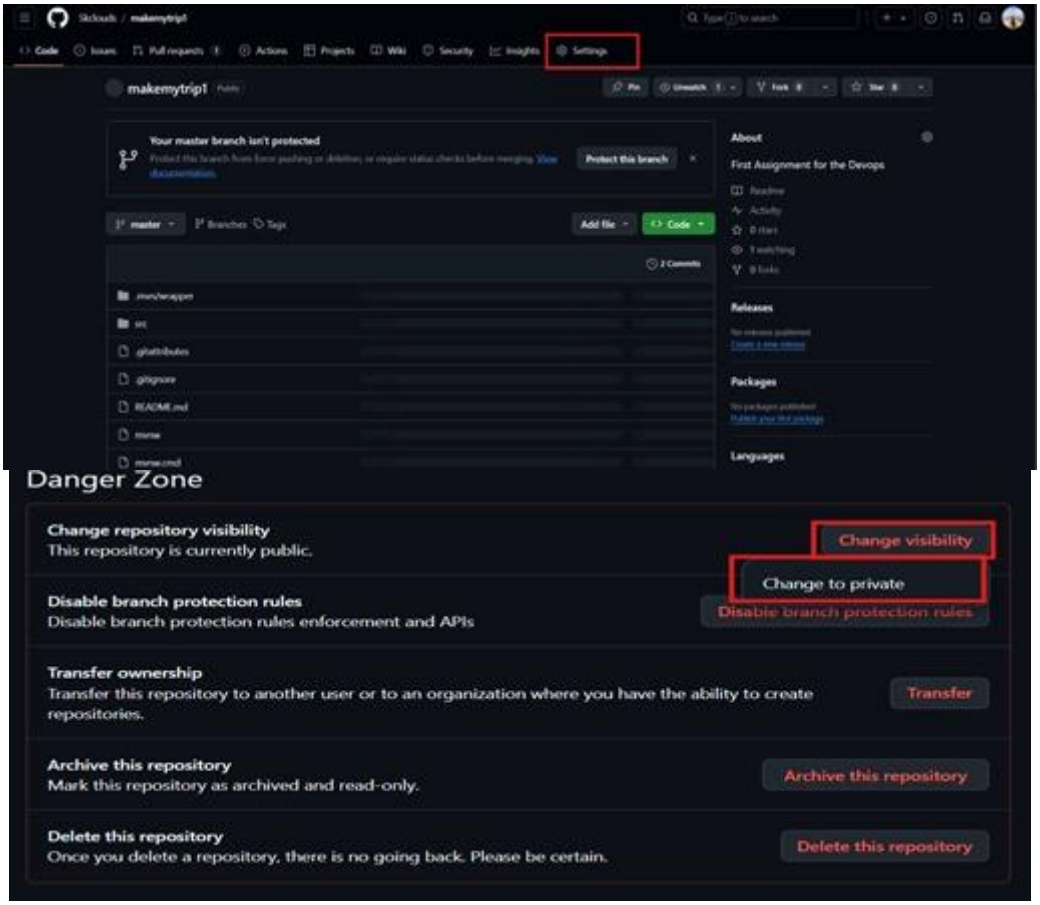
5. **Remaining set default and click on Save**
6. **Click on the Build now the Job will run and we can see the log as successful**



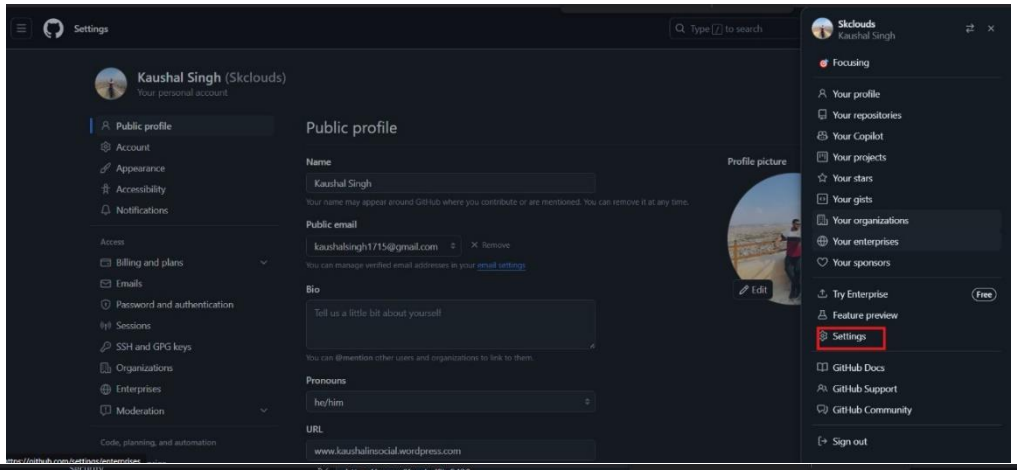
Create Maven Job in Jenkins with Private GitHub Repo Access

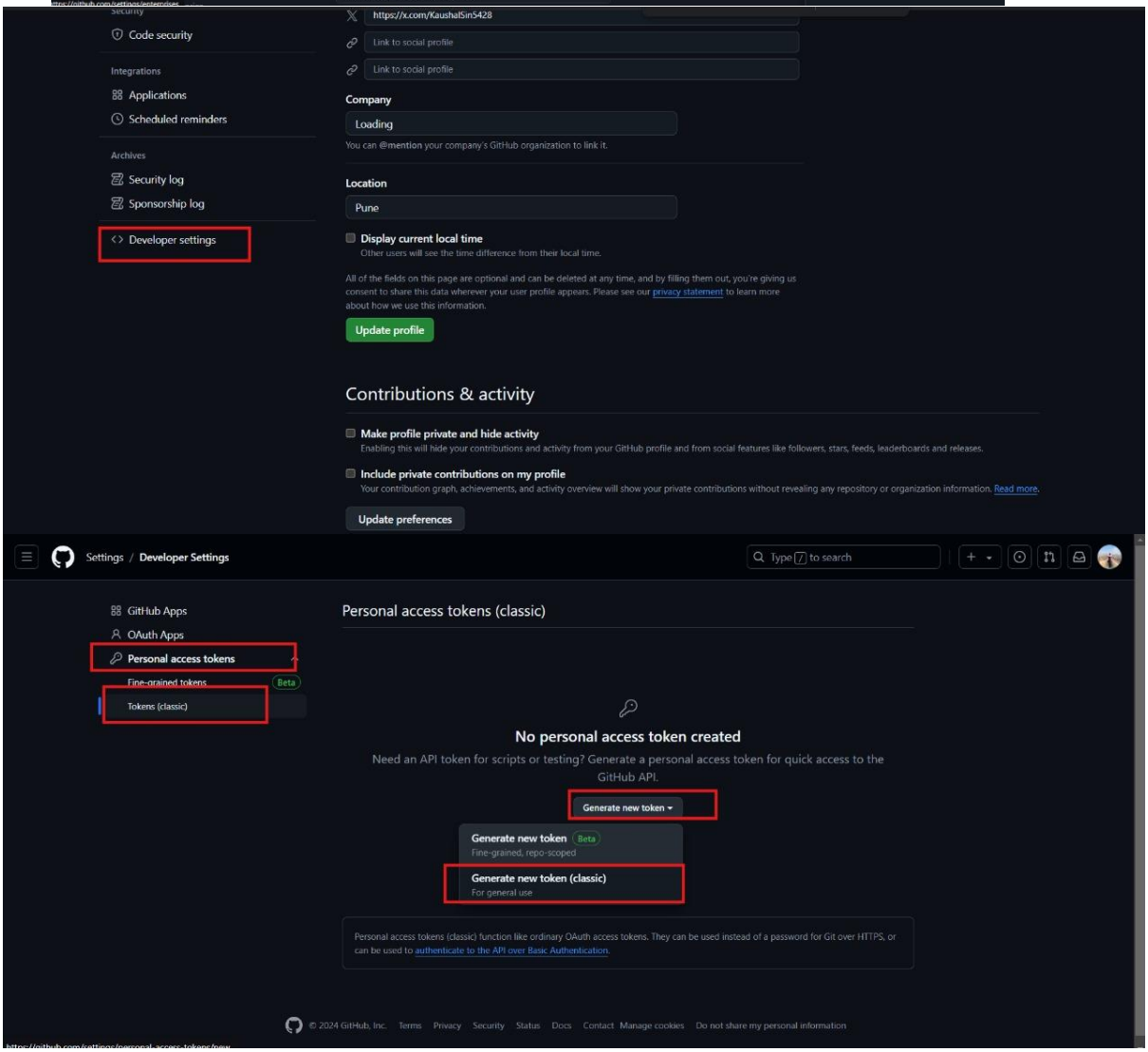
(Part 4)

1. **Create GitHub Repo Private**
   Click on Setting→ Click on the Repo Change Visibility→Change to private →



2. **Create the Token for the Repo**
   Click on Profile→Setting→Developer Setting→Personal Access Token→Token Access→Generate New Token→Name the Token→Select all the permissions-→Generate Token then token will be generated


Settings
Type / to search
Kaushal Singh (Skclouds)
Your personal account
Public profile
Account
Appearance
Accessibility
Notifications
Access
Billing and plans
Emails
Password and authentication
Sessions
SSH and GPG keys
Organizations
Enterprises
Moderation
Code, planning, and automation
Public profile
Name
Kaushal Singh
Your name may appear around GitHub where you contribute or are mentioned. You can remove it at any time.
Public email
kaushalsingh1715@gmail.com
Remove
You can manage verified email addresses in your email settings.
Bio
Tell us a little bit about yourself
You can @mention other users and organizations to link to them.
Pronouns
he/him
URL
www.kaushalinsocial.wordpress.com
Profile picture
Edit
Skclouds
Kaushal Singh
Focusing
Your profile
Your repositories
Your Copilot
Your projects
Your stars
Your gists
Your organizations
Your enterprises
Your sponsors
Try Enterprise
Free
Feature preview
Settings
GitHub Docs
GitHub Support
GitHub Community
Sign out


Code security
Integrations
Applications
Scheduled reminders
Archives
Security log
Sponsorship log
Developer settings
https://x.com/KaushalSin5428
Link to social profile
Link to social profile
Company
Loading
You can @mention your company's GitHub organization to link it.
Location
Pune
Display current local time
Other users will see the time difference from their local time.
All of the fields on this page are optional and can be deleted at any time, and by filling them out, you're giving us consent to share this data wherever your user profile appears. Please see our privacy statement to learn more about how we use this information.
Update profile
Contributions & activity
Make profile private and hide activity
Enabling this will hide your contributions and activity from your GitHub profile and from social features like followers, stars, feeds, leaderboards and releases.
Include private contributions on my profile
Your contribution graph, achievements, and activity overview will show your private contributions without revealing any repository or organization information. Read more.
Update preferences

Settings / Developer Settings
Type / to search
GitHub Apps
OAuth Apps
Personal access tokens
Fine-grained tokens
Beta
Tokens (classic)
Personal access tokens (classic)
No personal access token created
Need an API token for scripts or testing? Generate a personal access token for quick access to the GitHub API.
Generate new token
Generate new token Beta
Fine-grained, repo-scoped
Generate new token (classic)
For general use
Personal access tokens (classic) function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to authenticate to the API over Basic Authentication.
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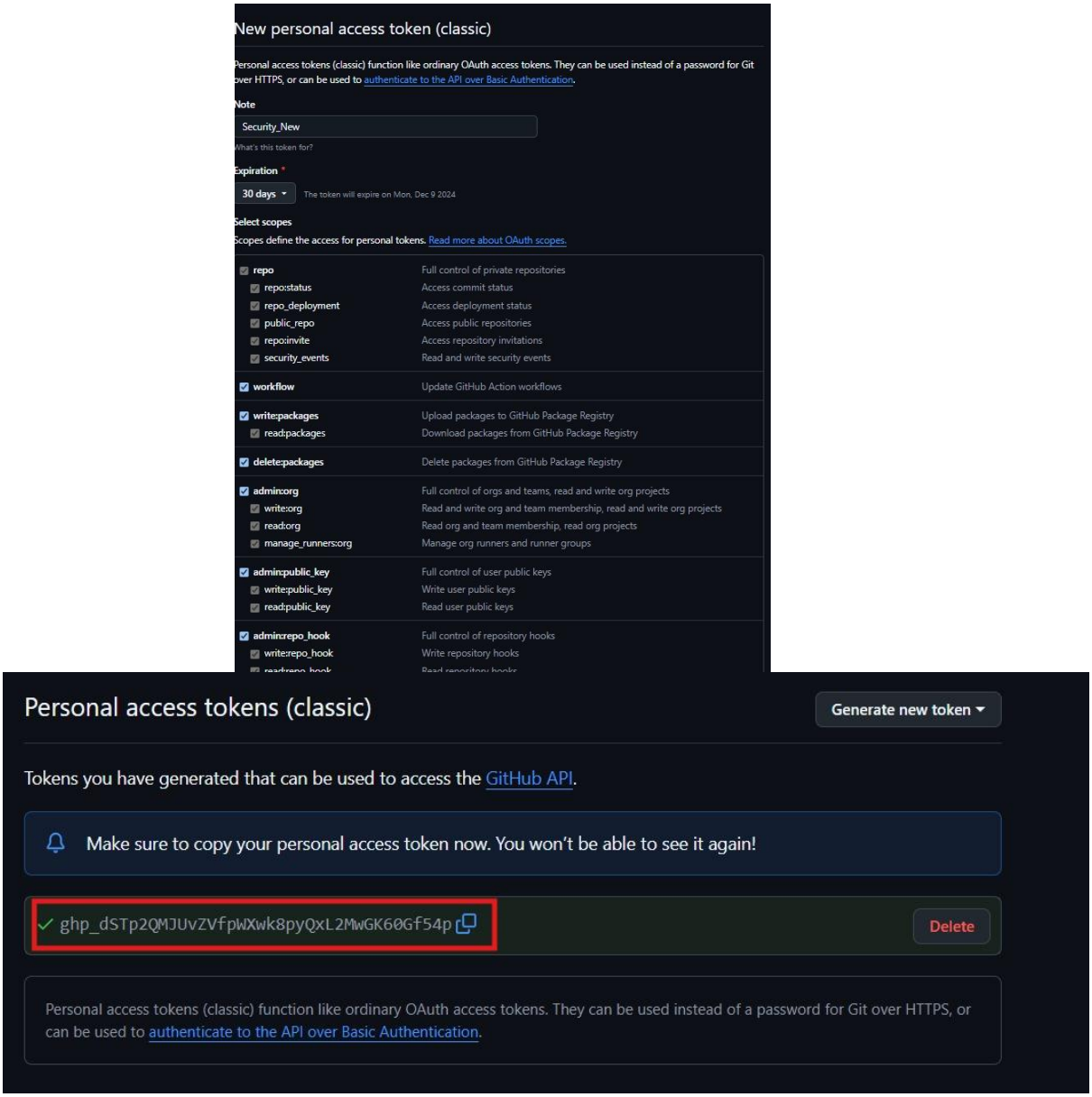
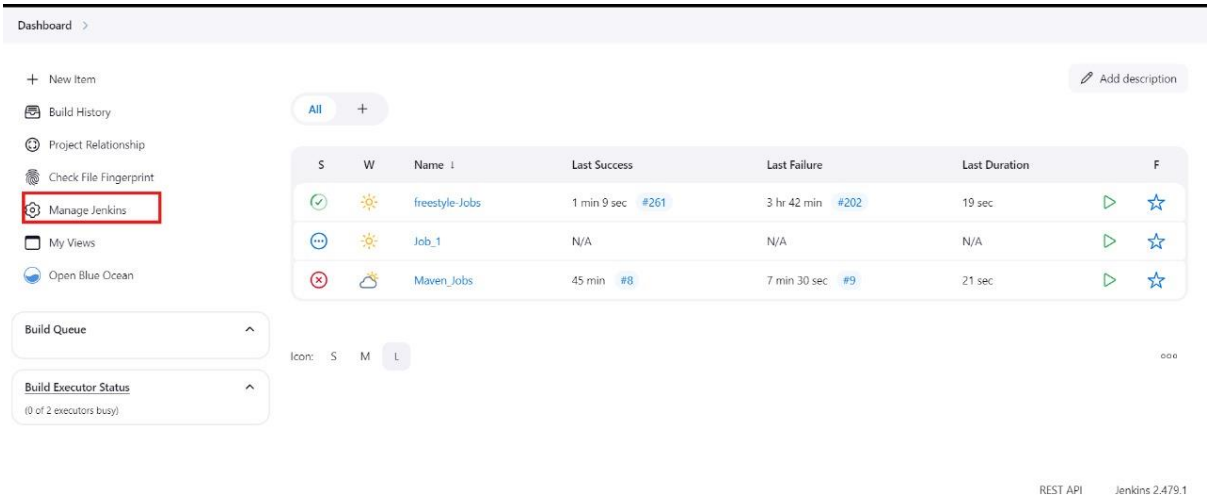


3. After making the repo private and we have build the job manual and the result is

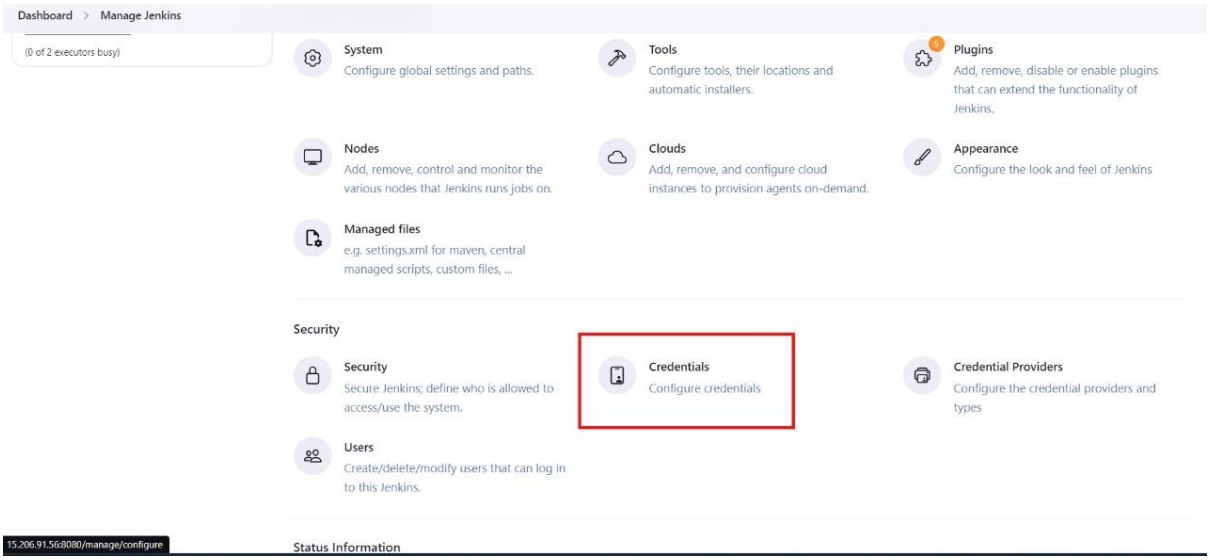
4. To complete This Job we have create a credential in Jenkins for the repo

Steps are as Follow

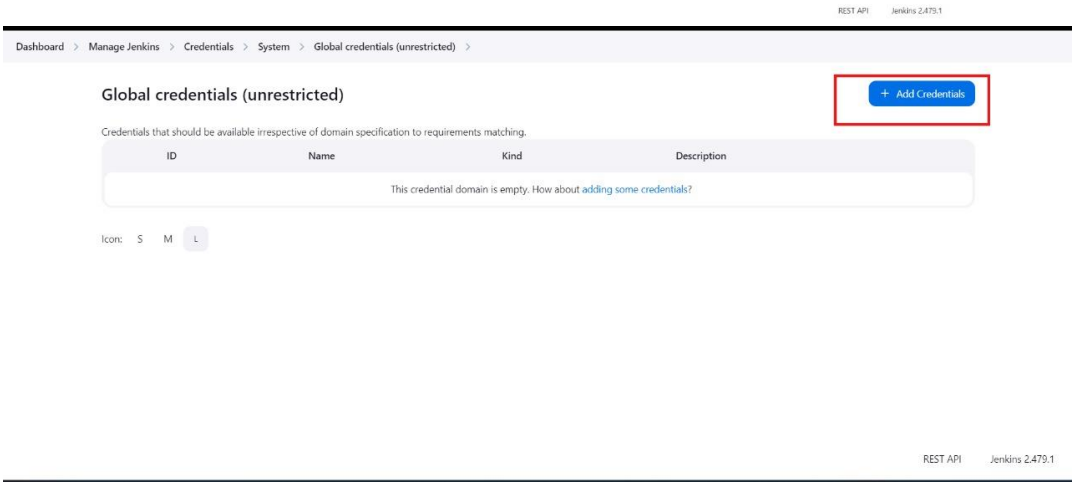
i. Click on Manage Jenkins



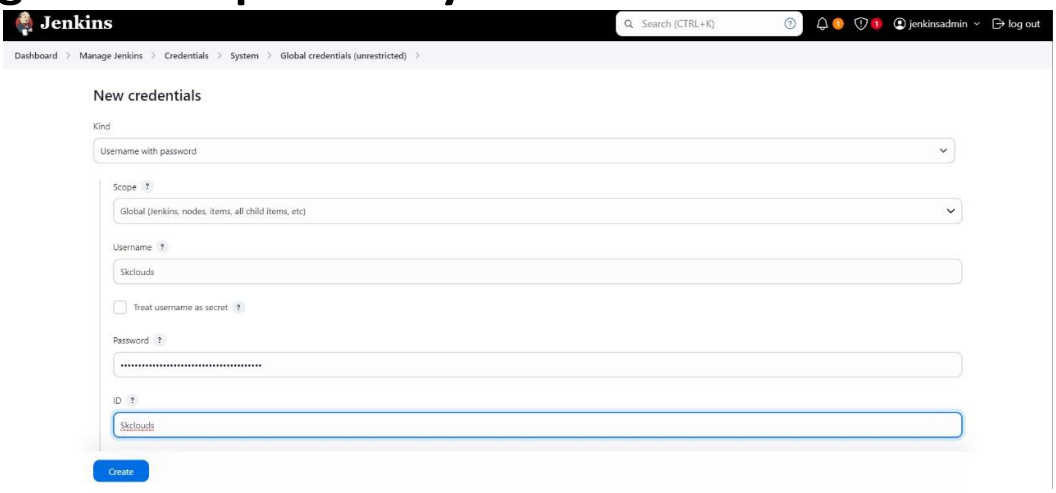
ii. Scroll down and select the credential option and select the global option



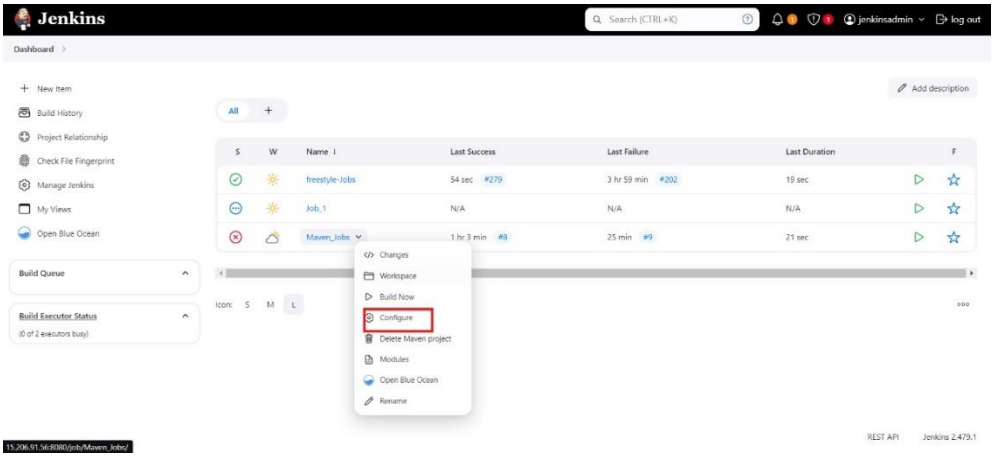
iii. Click on the Add Credential



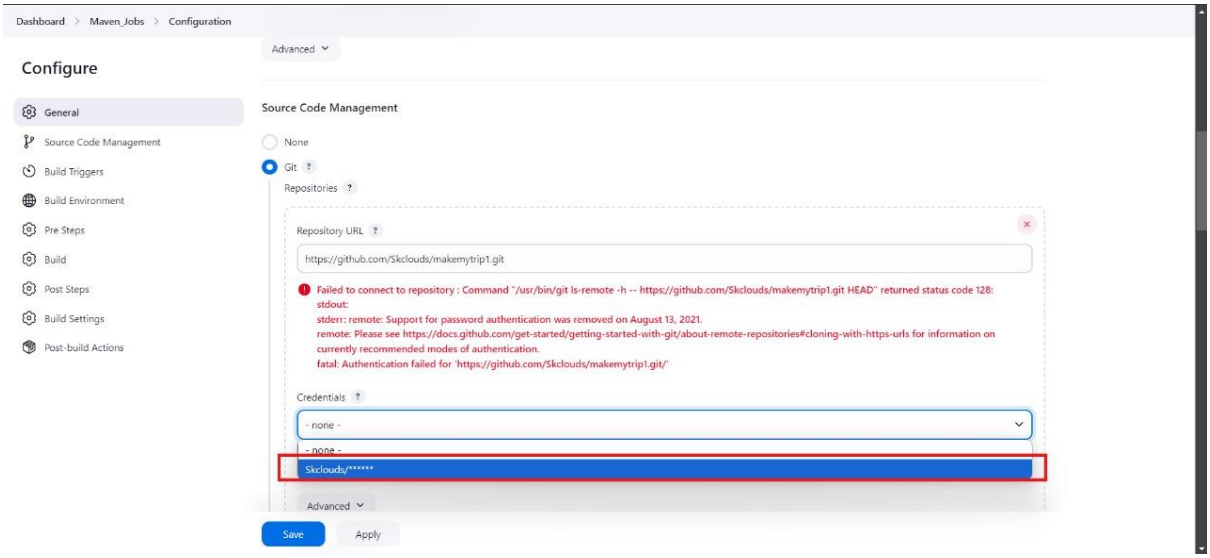
iv. **The type of the Credential will be Username and Password username will be the github username and userid will be same github username and password will be the token generated previously**



v. **Go to Maven Job Configuration**



vi. **Scroll down and in the Section of Source Code management Click on the Credential and select the recently created Credential**



vii. **Select the branch dev and Click on Save**

viii. **As we can see the previous job is showing cross and the recently created job is showing correct**

ix. The log of the Job is also showing the job run successfully without any error