

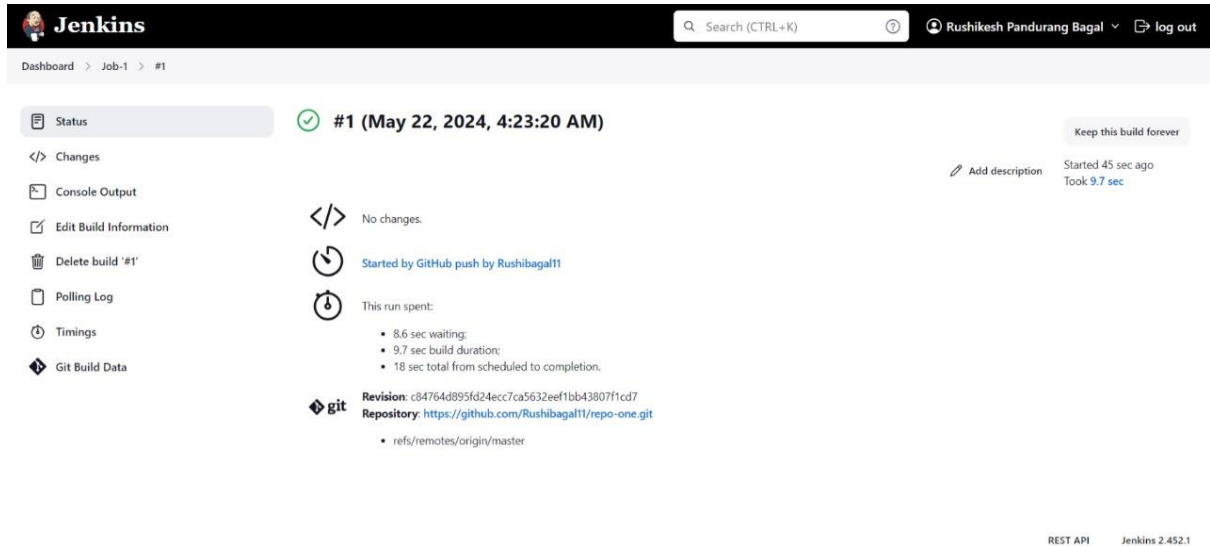
Jenkins Assignments

Assignment2) Jenkins Git Webhooks (Auto building jobs by committing changes in repository)

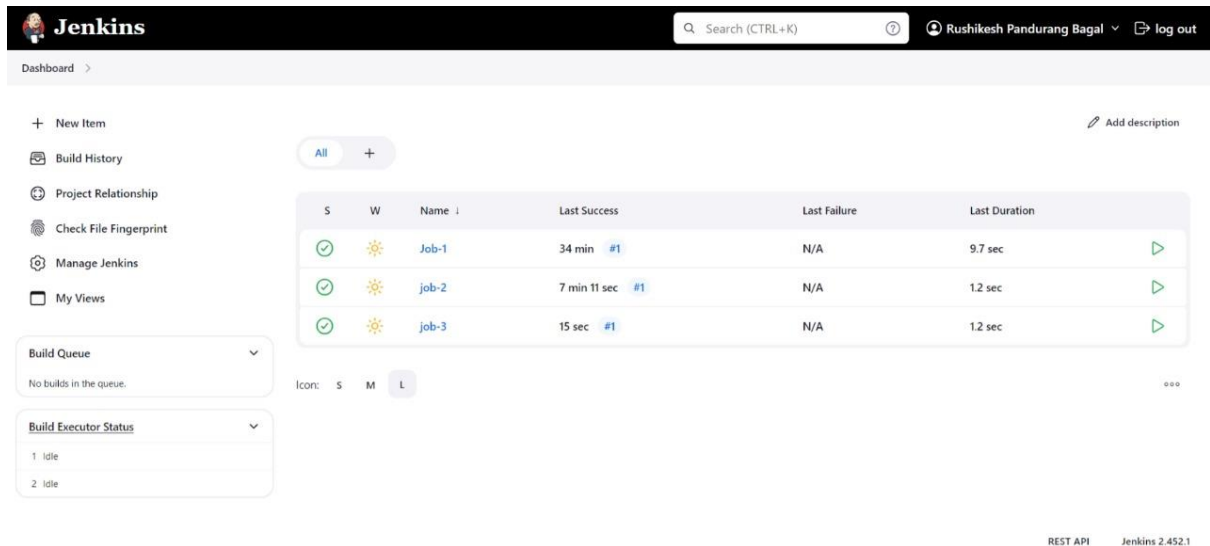
Steps:

- 1) Create EC2 instance connect it, got to mnt, download java 11, make one directory and inside directory download apache tomcat, unzip it and give permission to tomcat
- 2) Got to webapps in tomcat and download jenkins war file. Log in to Jenkins by copyting (IPV4:8080/Jenkins) in browser. Got to cd.. cd /root/ to root directory, ls -ltra you will get .jenkins (home directory of Jenkins)
- 3) Get password from here by cat and password link on Jenkins UI. Put password over there and log in to Jenkins
- 4) Create admin user by username, password, full name, emailed, install selected plugins, start using Jenkins
- 5) Create manually three repository in github manually and add three multiple files through VI editor using git init, git add, git commit, git remote add origin, git push origin master
- 6) Go to Jenkins, go to system, go to git server, select git server, select secret key, put git token there, give description do test, u will see git integrated with Jenkins successfully
- 7) Go to repository setting, select webhooks, add Jenkins url/github-webhooks/ over there, select application json format
- 8) Create a job, job name, free style project, job description, discard old builds, github link, github credentials, gitSCM polling, save and apply
- 9) Now to go to repository go to file and edit the file, commit the changes and save.
- 10) Come to Jenkins your job will auto build as you have made changes in the repository, it will instantly modify in job

HERE ARE SCREENSHOTS



This screenshot shows the Jenkins interface for a specific job build. The top navigation bar includes the Jenkins logo, a search bar, and the user name 'Rushikesh Pandurang Bagal' with a 'log out' link. The breadcrumb trail indicates the path: Dashboard > Job-1 > #1. On the left sidebar, various build-related actions are listed, such as 'Status', 'Changes', 'Console Output', 'Edit Build Information', 'Delete build', 'Polling Log', 'Timings', and 'Git Build Data'. The main content area displays the build status as a green checkmark and '#1 (May 22, 2024, 4:23:20 AM)'. It includes a 'Keep this build forever' button, an 'Add description' link, and a 'Started 45 sec ago' timestamp. The build details show 'No changes' and 'Started by GitHub push by Rushibagal11'. A 'This run spent:' section lists the timing: 8.6 sec waiting, 9.7 sec build duration, and 18 sec total from scheduled to completion. The 'git' section provides the revision hash 'c84764d895fd24ecc7ca5632eef1bb43807f1cd7' and the repository URL 'https://github.com/Rushibagal11/repo-one.git'. The bottom right corner shows 'REST API' and 'Jenkins 2.452.1'.



This screenshot shows the Jenkins Dashboard. The top navigation bar is identical to the previous screenshot. The breadcrumb trail is 'Dashboard >'. The left sidebar contains a 'New Item' button and a list of dashboard features: 'Build History', 'Project Relationship', 'Check File Fingerprint', 'Manage Jenkins', and 'My Views'. The main content area features a 'Build History' table with columns for status (S), icon (W), name, last success, last failure, and last duration. The table lists three jobs: 'Job-1' (34 min, #1), 'job-2' (7 min 11 sec, #1), and 'job-3' (15 sec, #1). Below the table, there are filters for 'Icon: S M L' and a 'More' button. The bottom right corner shows 'REST API' and 'Jenkins 2.452.1'.

S	W	Name	Last Success	Last Failure	Last Duration
✓	☀	Job-1	34 min #1	N/A	9.7 sec
✓	☀	job-2	7 min 11 sec #1	N/A	1.2 sec
✓	☀	job-3	15 sec #1	N/A	1.2 sec