

Installing the jenkins and configuring the jenkins with GitHub and DockerHub

Installing jenkins on server

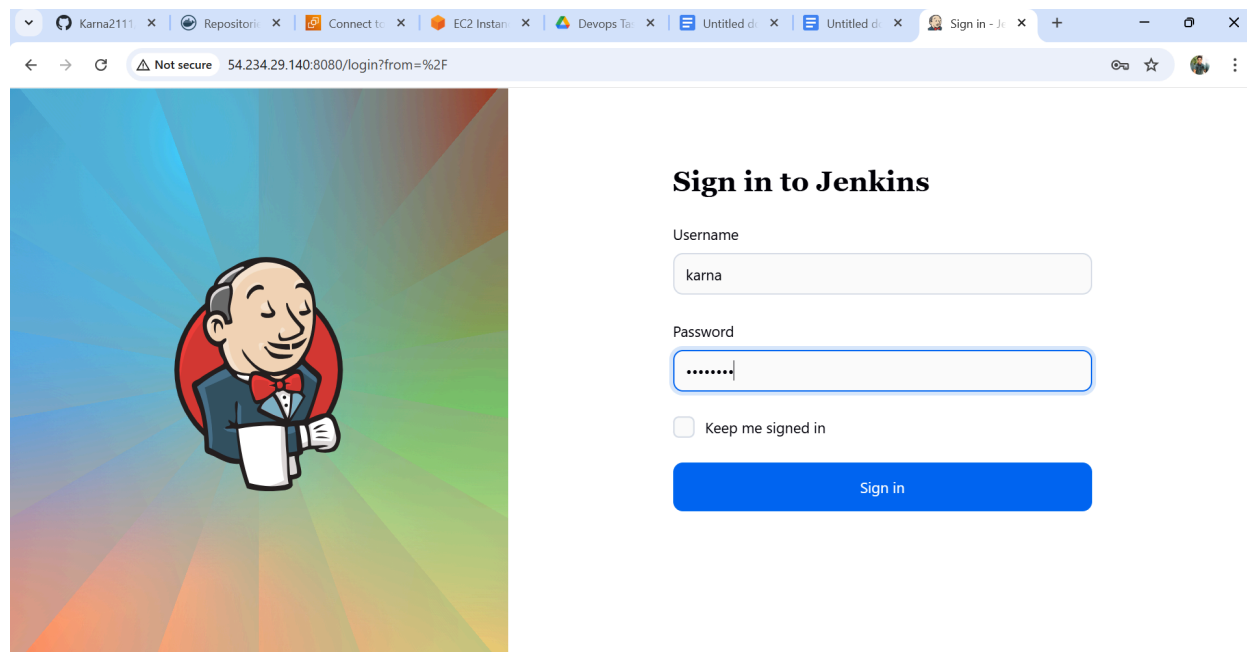
```
aws
[Alt+S]
United States (N. Virginia)
Karna Maharajan
ec2

/m/
last login: Tue Jul 8 10:49:48 2025 from 18.206.107.29
ec2-user@ip-172-31-91-134 ~$
ec2-user@ip-172-31-91-134 ~$
ec2-user@ip-172-31-91-134 ~$
ec2-user@ip-172-31-91-134 ~$
ec2-user@ip-172-31-91-134 ~$
ec2-user@ip-172-31-91-134 ~$ sudo systemctl status jenkins
jenkins.service - Jenkins Continuous Integration Server
Loaded: loaded (/usr/lib/systemd/system/jenkins.service; enabled; preset: disabled)
Active: active (running) since Sat 2025-07-12 07:15:11 UTC; 30min ago
Main PID: 2081 (java)
Tasks: 45 (limit: 4656)
Memory: 781.6M
CPU: 28.900s
CGroup: /system.slice/jenkins.service
└─2081 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPort=8080


Jul 12 07:15:11 ip-172-31-91-134.ec2.internal jenkins[2081]: 2025-07-12 07:15:11.129+0000 [id=31] INFO jenkins.InitReactorRunner$1onAttained: Loaded all jobs
Jul 12 07:15:11 ip-172-31-91-134.ec2.internal jenkins[2081]: 2025-07-12 07:15:11.155+0000 [id=31] INFO jenkins.InitReactorRunner$1onAttained: Configuration f
Jul 12 07:15:11 ip-172-31-91-134.ec2.internal jenkins[2081]: 2025-07-12 07:15:11.194+0000 [id=31] INFO jenkins.InitReactorRunner$1onAttained: Completed initia
Jul 12 07:15:11 ip-172-31-91-134.ec2.internal jenkins[2081]: 2025-07-12 07:15:11.207+0000 [id=48] INFO hudson.util.Retrier$start: Attempt #1 to do the action
Jul 12 07:15:11 ip-172-31-91-134.ec2.internal jenkins[2081]: 2025-07-12 07:15:11.257+0000 [id=23] INFO hudson.lifecycle.Lifecycle#onReady: Jenkins is fully up
Jul 12 07:15:11 ip-172-31-91-134.ec2.internal systemd[1]: Started jenkins.service - Jenkins Continuous Integration Server.
Jul 12 07:15:13 ip-172-31-91-134.ec2.internal jenkins[2081]: 2025-07-12 07:15:13.954+0000 [id=48] INFO h.m.DownloadService$Downloadable#load: Obtained the upd
Jul 12 07:15:14 ip-172-31-91-134.ec2.internal jenkins[2081]: 2025-07-12 07:15:14.082+0000 [id=48] INFO h.m.DownloadService$Downloadable#load: Obtained the upd
Jul 12 07:15:14 ip-172-31-91-134.ec2.internal jenkins[2081]: 2025-07-12 07:15:14.256+0000 [id=48] INFO h.m.DownloadService$Downloadable#load: Obtained the upd
Jul 12 07:15:14 ip-172-31-91-134.ec2.internal jenkins[2081]: 2025-07-12 07:15:14.257+0000 [id=48] INFO hudson.util.Retrier$start: Performed the action check up
lines 1-20/20 (END)

i-005f2ad1d970866d4 (Prod-Server)
PublicIPs: 54.234.29.140 PrivateIPs: 172.31.91.134
```

Sign in with localhost



Adding git, docker, ec2-aws credentials in jenkins.

Jenkins

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👤 Karna Maharajan







🚪 log out

Dashboard > Manage Jenkins > Credentials > System > Global credentials (unrestricted) >

Global credentials (unrestricted)

+ Add Credentials


Credentials that should be available irrespective of domain specification to requirements matching.

ID	Name	Kind	Description
 GIT-Webhook	Karna2111/*****	Username with password	
 Docker-Jenkins	karna2111/*****	Username with password	
 ec2-user-jenkins	ec2-user	SSH Username with private key	

Icon: S M L

REST APIJenkins 2.504.3

Connect Jenkins to the GitHub repo with auto built trigger from both dev & master branch

Jenkins

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👤 Karna Maharajan

🚪 log out

Dashboard > Guvi-Multi-Webhook > Configuration

Configuration

General

Enabled

⚙️ General

⚙️ Branch Sources

⚙️ Build Configuration

⚙️ Scan Multibranch Pipeline Triggers

⚙️ Orphaned Item Strategy

👤 Appearance

📊 Health metrics

🔧 Properties

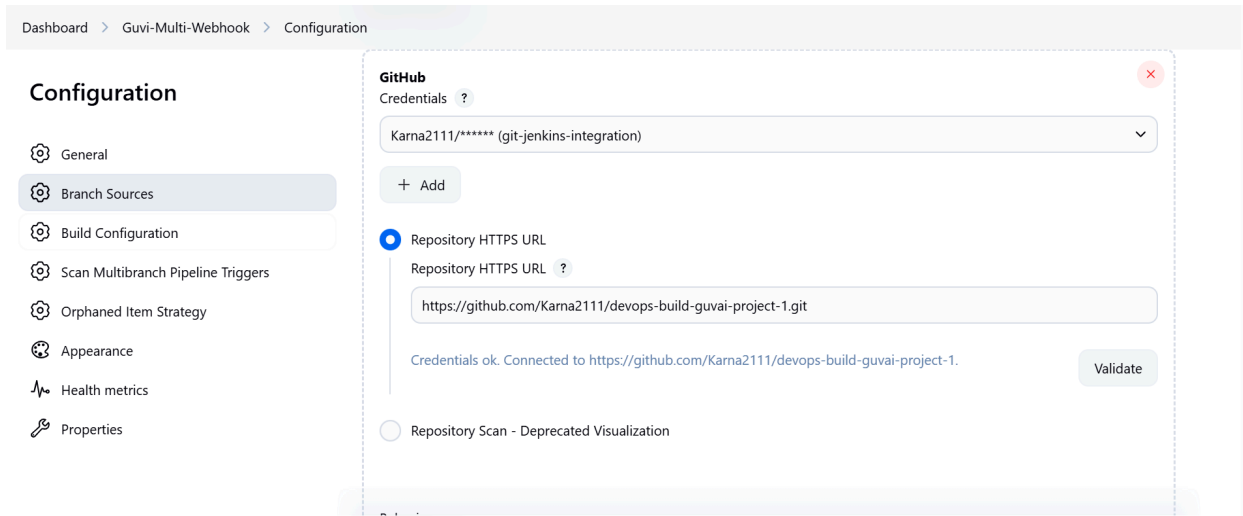
Display Name ?

Guvi-Multi-Webhook

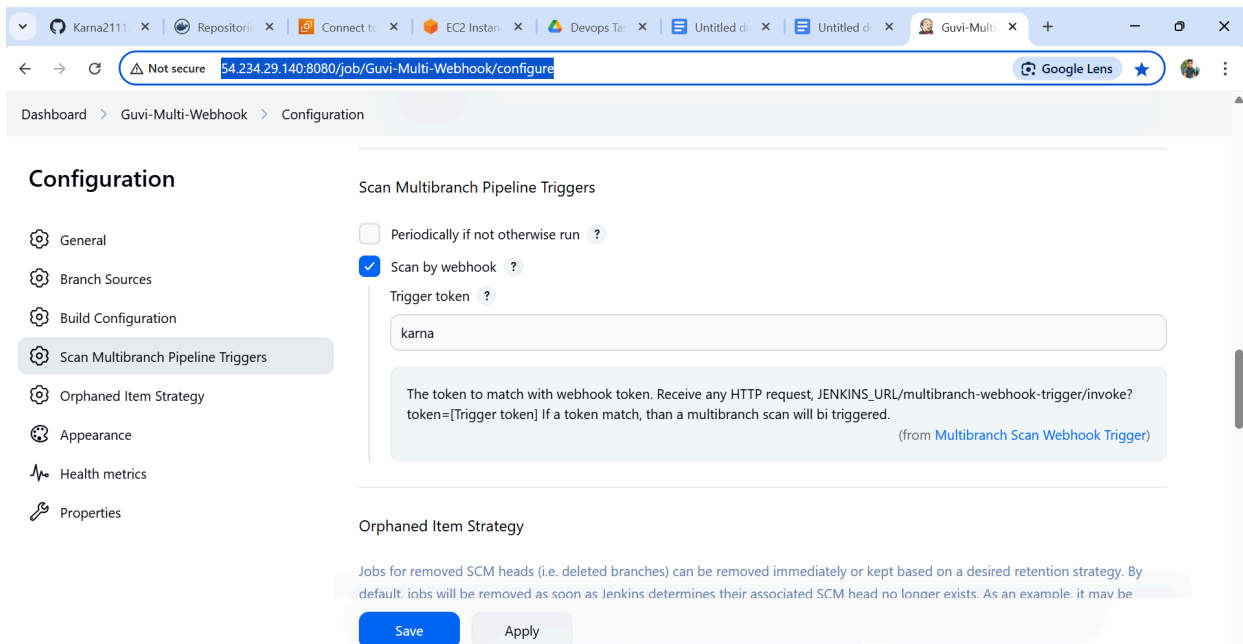
Description

Deploying a static web server for a react app using the multi-pipeline

Plain text [Preview](#)



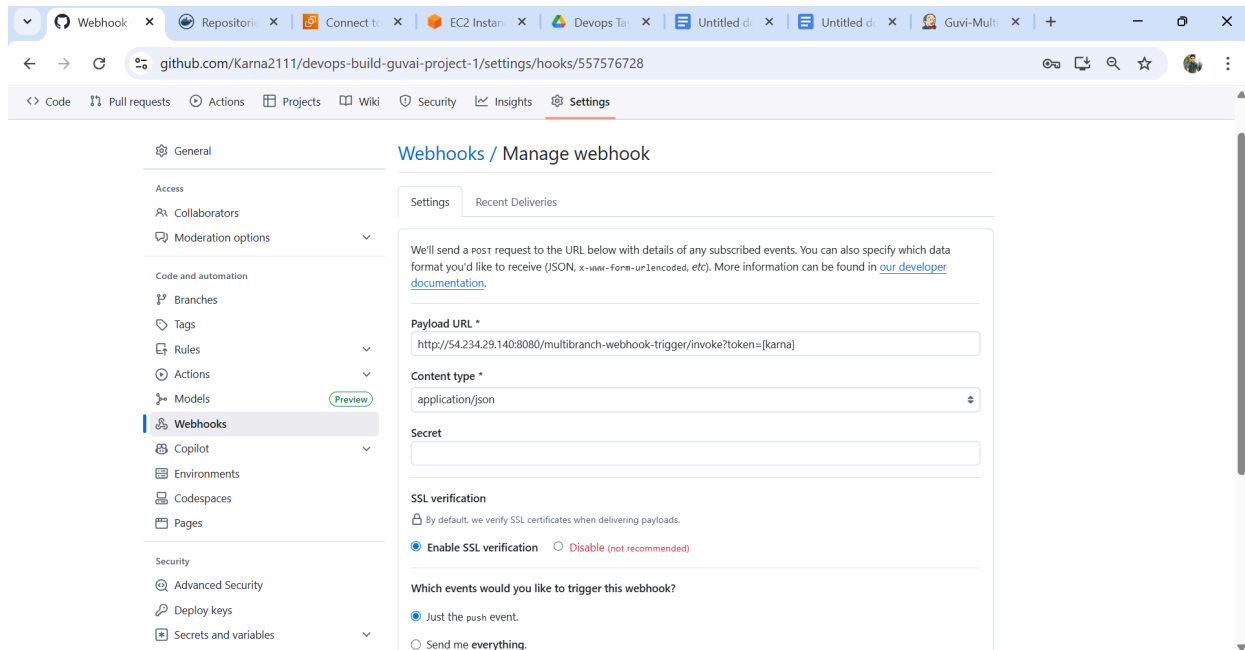
Take a scm trigger token and paste it in the git hub repo



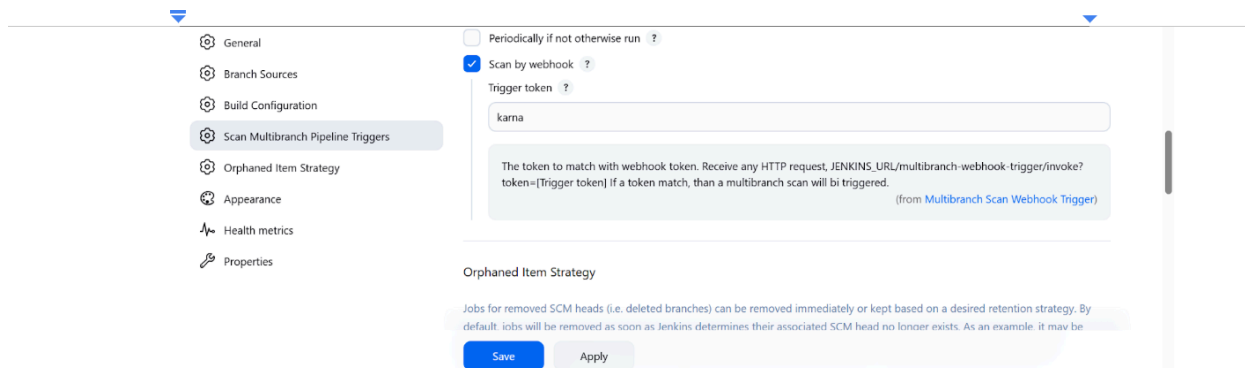
JENKINS_URL/multibranch-webhook-trigger/invoke?token=[karna]

[http://54.234.29.140:8080/multibranch-webhook-trigger/invoke?token=\[karna\]](http://54.234.29.140:8080/multibranch-webhook-trigger/invoke?token=[karna])

Add this token in git repo



Switch to jenkins and finally give apply to build



The below picture show number build got failed and finally got success

Security | EC2 Ins | Final-p | karna2 | me x | Docker | System | Alterna | Recent | Jenkins | React / | Welcor

← → ↻ ⚠ Not secure 44.202.244.130:8080/job/Project-webhook-multi/job/main/

Dashboard > Project-webhook-multi > main >

Today

✓ #36	7:20 AM	▼
✗ #35	7:15 AM	▼
✓ #34	7:00 AM	▼
✓ #33	6:47 AM	▼
✓ #32	6:22 AM	▼
✗ #31	6:18 AM	▼
✗ #30	6:14 AM	▼
✗ #29	5:51 AM	▼
✗ #28	5:39 AM	▼
✗ #27	5:27 AM	▼
✗ #26	5:09 AM	▼
✗ #25	4:29 AM	▼
✗ #24	2:44 AM	▼
✗ #23	2:35 AM	▼
✗ #22	2:21 AM	▼
✗ #21	1:58 AM	▼

Finally the deployment git success

Security | EC2 Ins | Final-p | karna2 | Prc x | Docker | System | Alterna | Recent | Jenkins | React / | Welcor | +

← → ↻ ⚠ Not secure 44.202.244.130:8080/job/Project-webhook-multi/job/main/36/console ☆ ⋮

Dashboard > Project-webhook-multi > main > #36

```
4b42014c5663a17450a6488268236atda7c377428e6a+9c6+be0882033e3b7
[Pipeline] }
$ ssh-agent -k
unset SSH_AUTH_SOCK;
unset SSH_AGENT_PID;
echo Agent pid 22698 killed;
[ssh-agent] Stopped.
[Pipeline] // sshagent
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

REST API Jenkins 2.504.3

9:34°C ENG 12:55

If dev merged to master, then docker image must be pushed to prod repo in docker hub

Dashboard > Project-webhook-multi > main > #36

Status ✓ #36 (Jul 14, 2025, 7:20:22 AM) [Add description](#) [Keep this build forever](#)

Changes

Console Output

Edit Build Information

Delete build '#36'

Timings

Git Build Data

Pipeline Overview

Restart from Stage

Replay

Pipeline Steps

Workspaces

Started by user [Karna Maharajan](#)

This run spent:

- 14 ms waiting;
- 7.5 sec build duration;
- 7.5 sec total from scheduled to completion.

git **Revision:** 9847347f73e9f84a4e676c62024a0b6343031a71
Repository: <https://github.com/Karna2111/Final-project-guvi.git>

- main

Changes

1. bild.sh ([details](#) / [githubweb](#))

If code push to dev branch, docker image must build and push to dev repo in docker hub

Dashboard > Project-webhook-multi > dev >

Status ✓ dev

Full project name: Project-webhook-multi/dev

Permalinks

- [Last build \(#2\), 45 sec ago](#)
- [Last stable build \(#2\), 45 sec ago](#)
- [Last successful build \(#2\), 45 sec ago](#)
- [Last failed build \(#1\), 5 hr 33 min ago](#)
- [Last unsuccessful build \(#1\), 5 hr 33 min ago](#)
- [Last completed build \(#2\), 45 sec ago](#)

Builds

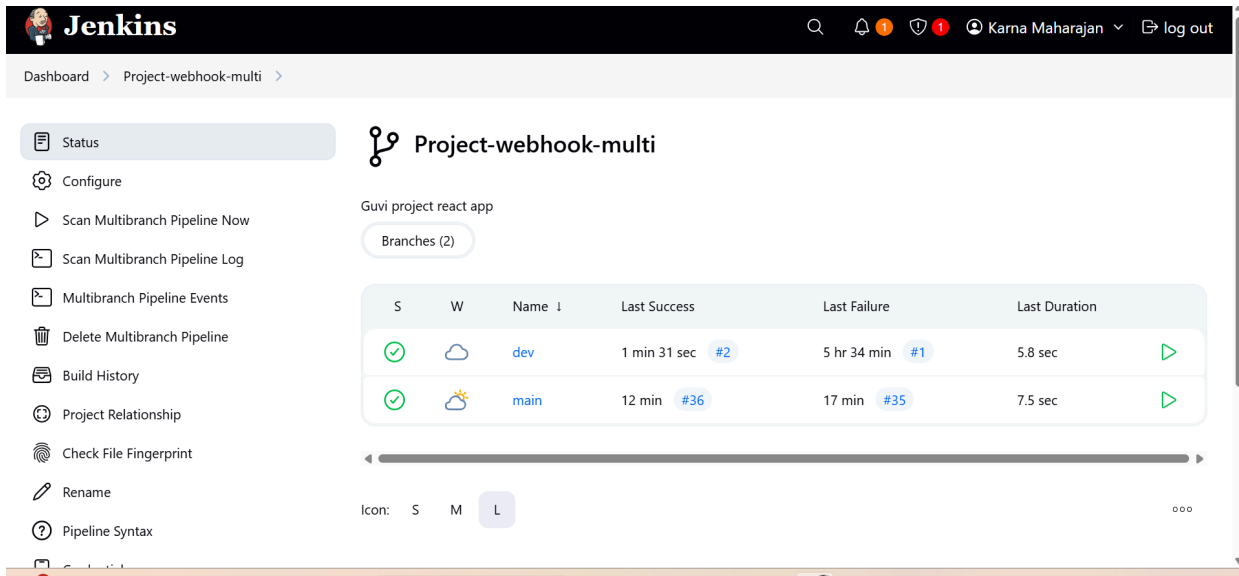
Filter

Today

- ✓ #2 7:31 AM
- ✗ #1 1:58 AM

44.202.244.130:8080/job/Project-webhook-multi/job/dev/GitHubPollLog

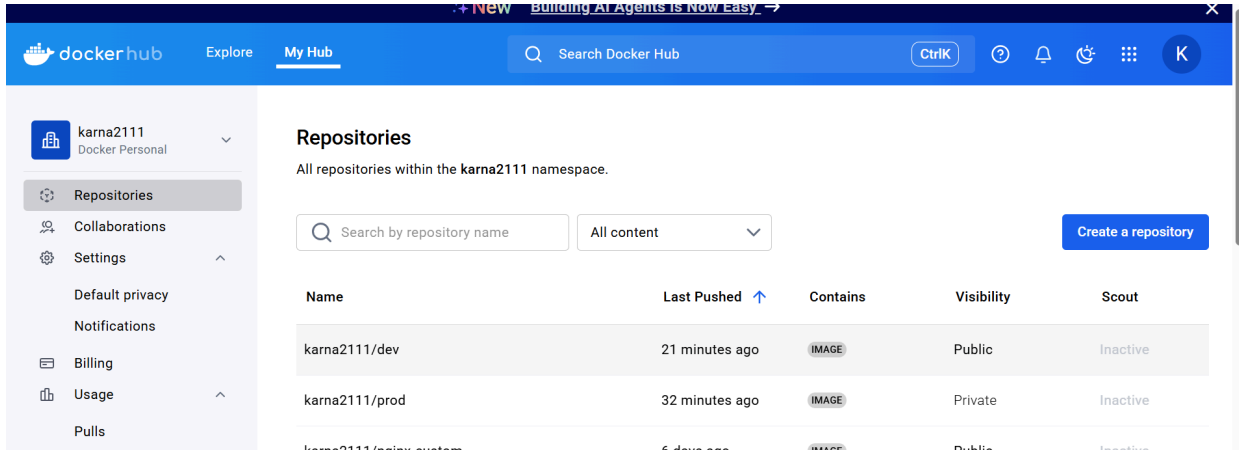
Here you can see the dev and main branch in webhook pipeline



The screenshot shows the Jenkins interface for a project named "Project-webhook-multi". The left sidebar contains a list of actions: Status, Configure, Scan Multibranch Pipeline Now, Scan Multibranch Pipeline Log, Multibranch Pipeline Events, Delete Multibranch Pipeline, Build History, Project Relationship, Check File Fingerprint, Rename, and Pipeline Syntax. The main area displays the pipeline status for "Guvu project react app" with two branches: "dev" and "main".

S	W	Name	Last Success	Last Failure	Last Duration
✓	☁	dev	1 min 31 sec #2	5 hr 34 min #1	5.8 sec
✓	☁	main	12 min #36	17 min #35	7.5 sec

Dockerhub the image began push one the deployment success

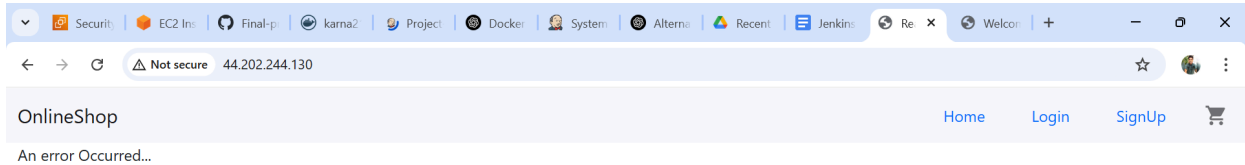


The screenshot shows the Docker Hub interface for the user "karna2111". The left sidebar contains a list of actions: Repositories, Collaborations, Settings, Default privacy, Notifications, Billing, Usage, and Pulls. The main area displays the "Repositories" section, showing a list of repositories within the "karna2111" namespace.

Name	Last Pushed	Contains	Visibility	Scout
karna2111/dev	21 minutes ago	IMAGE	Public	Inactive
karna2111/prod	32 minutes ago	IMAGE	Private	Inactive
karna2111/noinx-custom	6 days ago	IMAGE	Public	Inactive

Finally the application is hosted in port:80

Use this url to view the webpage <http://44.202.244.130>



<http://44.202.244.130/login>

