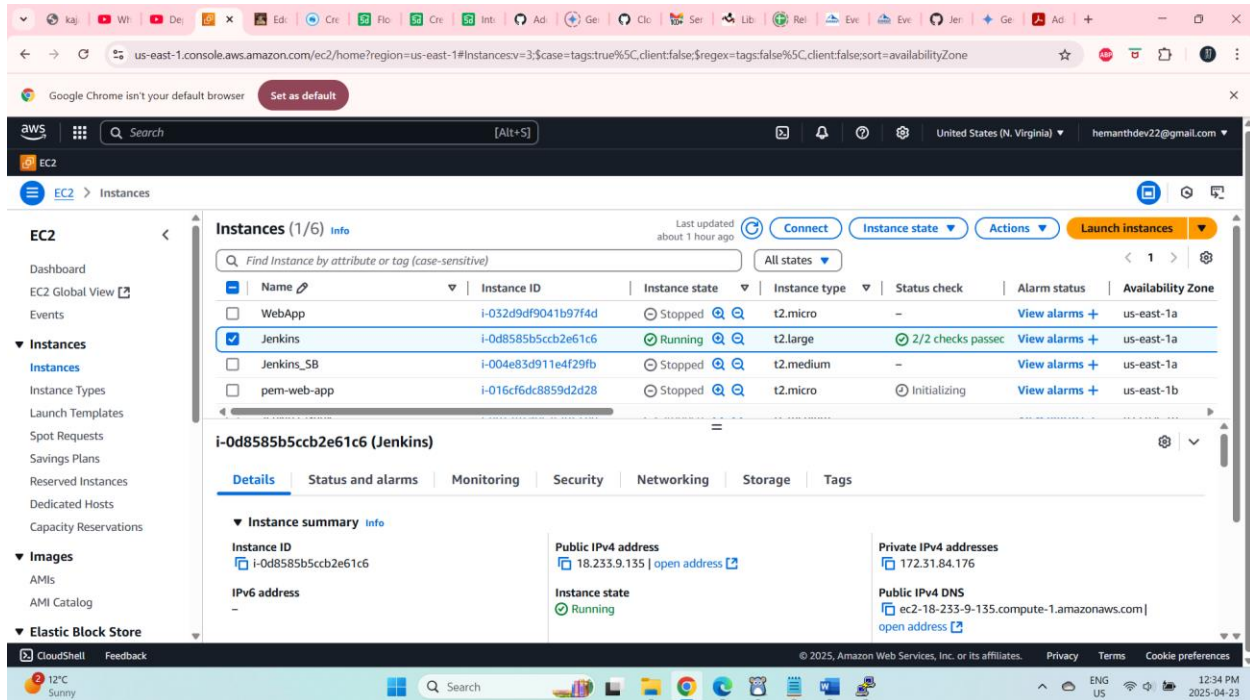
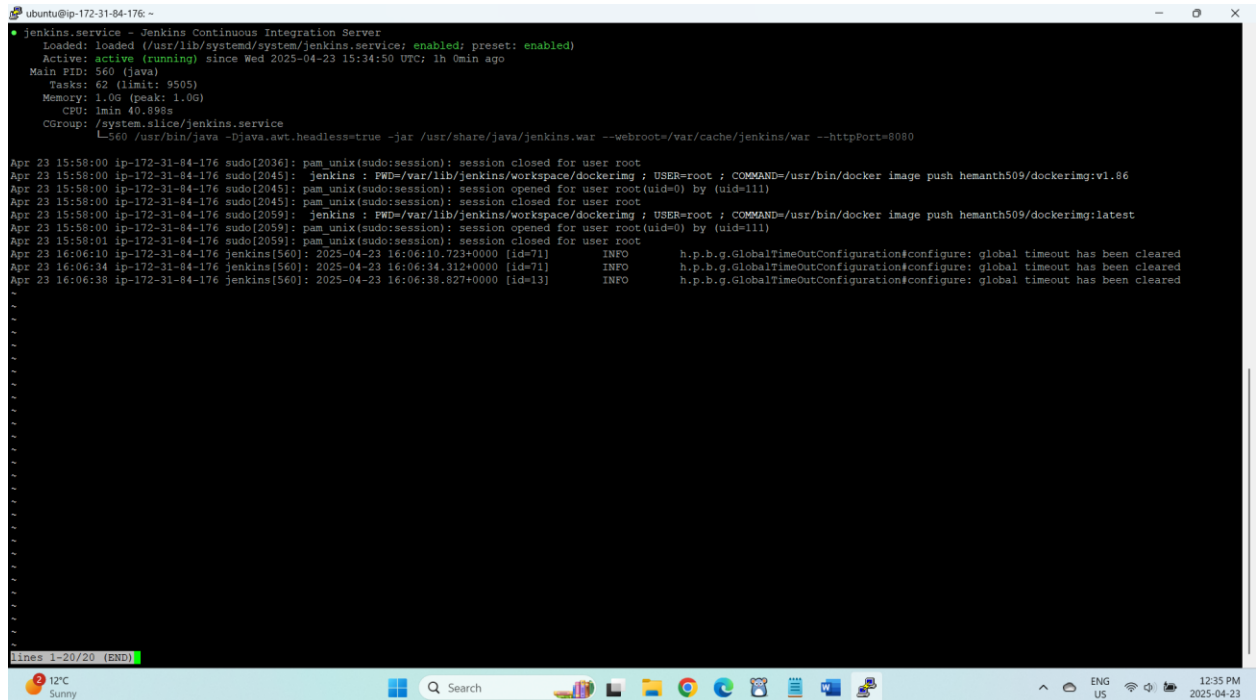


# Screenshots of Jenkins CICD pipeline to create Docker images

## Create a VM in Amazon Cloud to install Jenkins and Docker



### 1. Verify Jenkins is installed

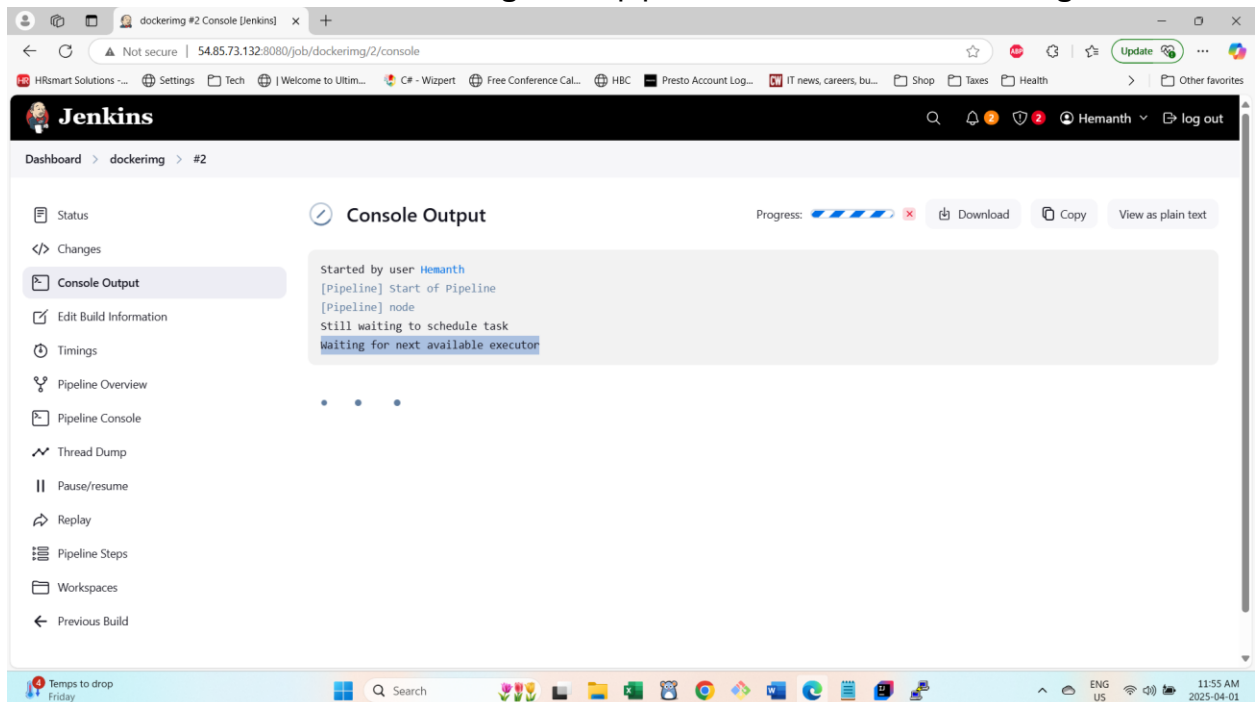


### 2. Verify Docker is installed

```
ubuntu@ip-172-31-84-176:~$ sudo systemctl status docker
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; preset: enabled)
   Active: active (running) since Wed 2025-04-23 15:34:38 UTC; 1h 0min ago
     TriggeredBy: ● docker.socket
   Docs: https://docs.docker.com
   Main PID: 897 (dockerd)
     Tasks: 29
    Memory: 109.3M (peak: 115.7M)
       CPU: 1.558s
    CGroup: /system.slice/docker.service
            └─ 897 /usr/bin/dockerd -R fd:// --containerd=/run/containerd/containerd.sock
               1920 /usr/bin/docker-proxy -proto tcp -host-ip 0.0.0.0 -host-port 500 -container-ip 172.17.0.2 -container-port 80 -use-listen-fd
               1938 /usr/bin/docker-proxy -proto tcp -host-ip :: -host-port 500 -container-ip 172.17.0.2 -container-port 80 -use-listen-fd

Apr 23 15:34:37 ip-172-31-84-176 dockerd[897]: time="2025-04-23T15:34:37.772604625Z" level=warning msg="error locating sandbox id 1c8ed841f179cfa9952e0605d89aa62fc6afad36f80db5209e7c1355f0b"
Apr 23 15:34:37 ip-172-31-84-176 dockerd[897]: time="2025-04-23T15:34:37.772660040Z" level=warning msg="error locating sandbox id 35f818f2cefd57ebcc4e63c6c8a734954fc07e9a795c206e6f9569935"
Apr 23 15:34:37 ip-172-31-84-176 dockerd[897]: time="2025-04-23T15:34:37.773525943Z" level=info msg="Loading containers: done."
Apr 23 15:34:37 ip-172-31-84-176 dockerd[897]: time="2025-04-23T15:34:37.838199467Z" level=info msg="Docker daemon" commit=bbd0a17 containerd-snapshotter=false storage-driver=overlay2 version=25.0.3
Apr 23 15:34:37 ip-172-31-84-176 dockerd[897]: time="2025-04-23T15:34:37.838805370Z" level=info msg="Initializing buildkit"
Apr 23 15:34:38 ip-172-31-84-176 dockerd[897]: time="2025-04-23T15:34:38.052956292Z" level=info msg="Completed buildkit initialization"
Apr 23 15:34:38 ip-172-31-84-176 dockerd[897]: time="2025-04-23T15:34:38.060940112Z" level=info msg="Daemon has completed initialization"
Apr 23 15:34:38 ip-172-31-84-176 dockerd[897]: time="2025-04-23T15:34:38.060995116Z" level=info msg="API listen on /run/docker.sock"
Apr 23 15:34:38 ip-172-31-84-176 systemd[1]: Started docker.service - Docker Application Container Engine.
Apr 23 15:57:58 ip-172-31-84-176 dockerd[897]: 2025/04/23 15:57:58 http2: server: error reading preface from client 0: read unix /run/docker.sock->0: read: connection reset by peer
lines 1-24/24 (END)
```

### 3. Create a Jenkins Continuous Integration pipeline and name it **dockering**



### 4. Verify apache2 is installed



```
ubuntu@ip-172-31-84-176:~$ docker ps -a
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS                                NAMES
962473bbf079   hemanth509/dockerimg:v1.86         "apache2ctl -D FOREG..." 48 minutes ago Up 48 minutes 0.0.0.0:500->80/tcp, [::]:500->80/tcp nifty_colden
a9d0099db2d4   a59c1b834b5f                       "apache2ctl -D FOREG..." 22 hours ago   Exited (137) 17 hours ago                                admiring_kalam
c0d99eb0ba92   a59c1b834b5f                       "apache2ctl -D FOREG..." 11 days ago    Exited (137) 11 days ago                                boring_albattani
dece3b02f637   hemanth509/dockerimg:v1.80         "apache2ctl -D FOREG..." 11 days ago    Created                                              happy_chatelet
55f04e055ac0   a59c1b834b5f                       "apache2ctl -D FOREG..." 11 days ago    Created                                              sweet_perلمان
```

hemanth509  
Docker Personal

Repositories

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hemanth509/dockerimg

Last pushed about 21 hours ago · Repository size: 567.2 MB

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General

Tags

Image Management BETA

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Webhooks

Settings

Tags

This repository contains 3 tag(s).

Tag	OS	Type	Pulled	Pushed
latest	linux	Image	less than 1 day	about 21 hours
v1.85	linux	Image	less than 1 day	about 21 hours
v1.81	linux	Image	less than 1 day	12 days

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DOCKER SCOUT INACTIVE

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buildcloud

Build with Docker Build Cloud

Accelerate image build times with access to cloud-based builders and shared cache.

Docker Build Cloud executes builds on optimally-dimensioned cloud infrastructure with dedicated per-organization isolation.

Get faster builds through shared caching across your team, native multi-platform support, and encrypted data transfer - all without managing infrastructure.

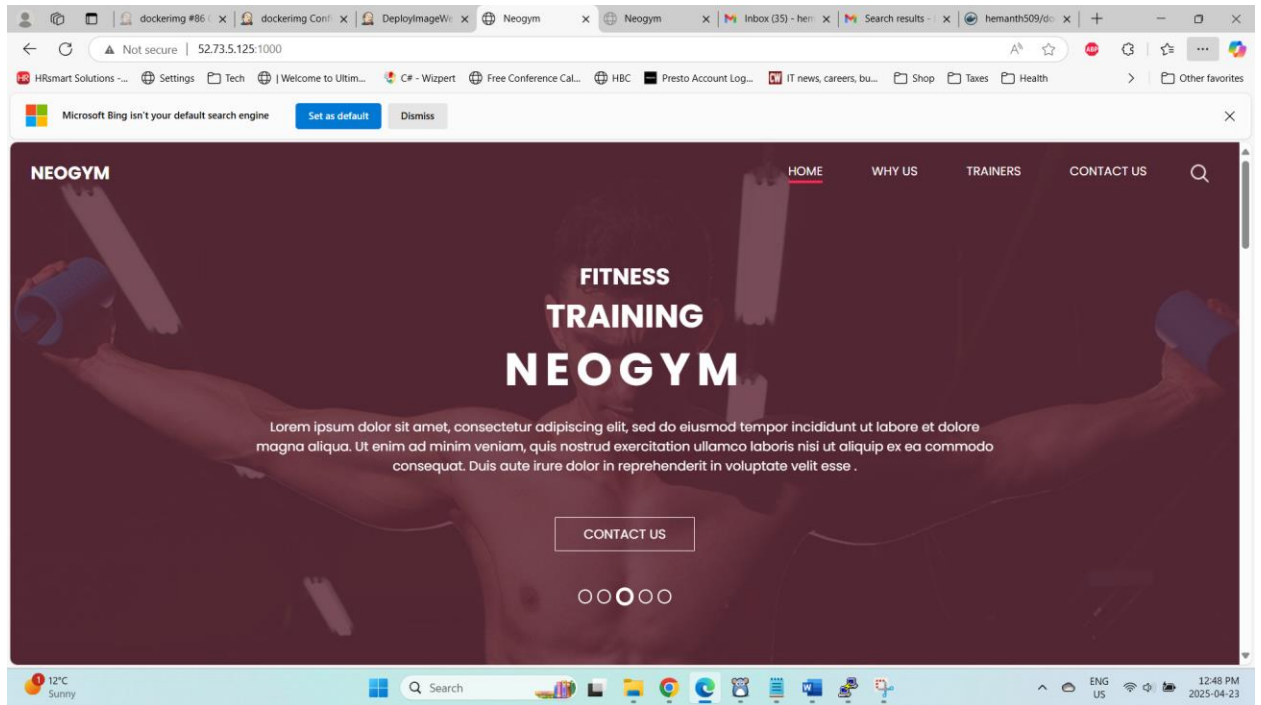
Docker commands

To push a new tag to this repository:

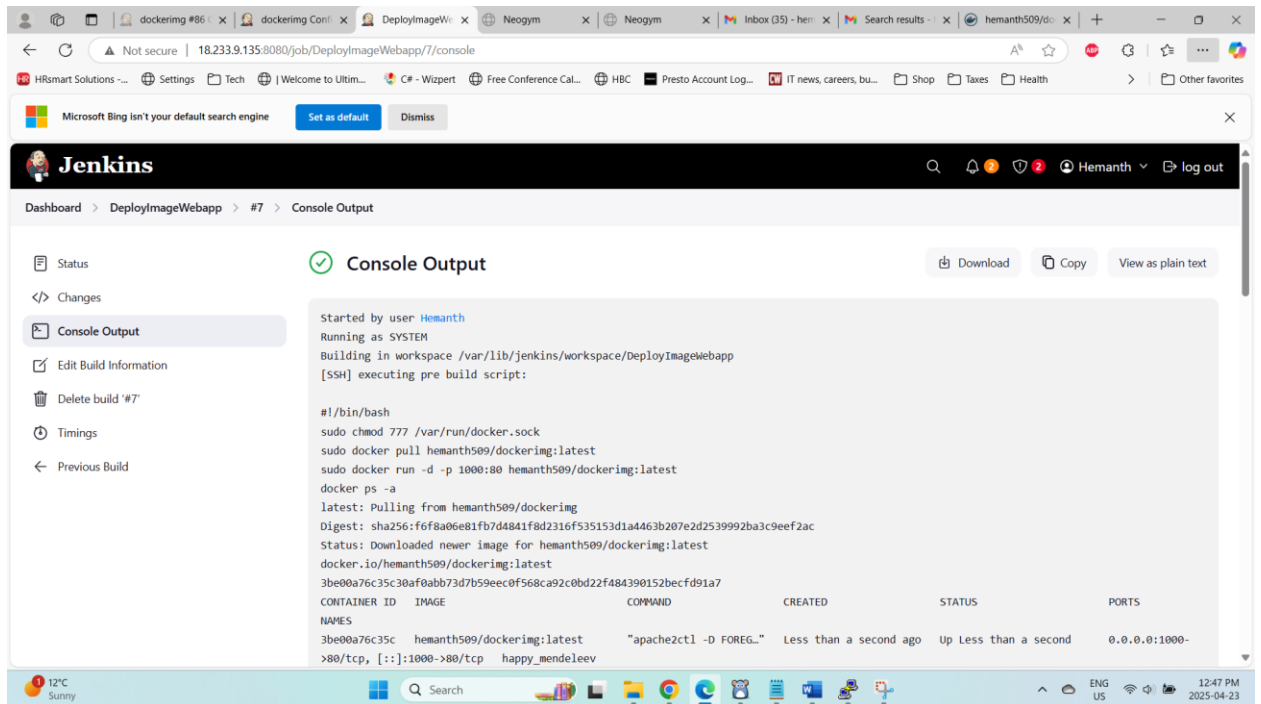
`docker push hemanth509/dockerimg:tagname`

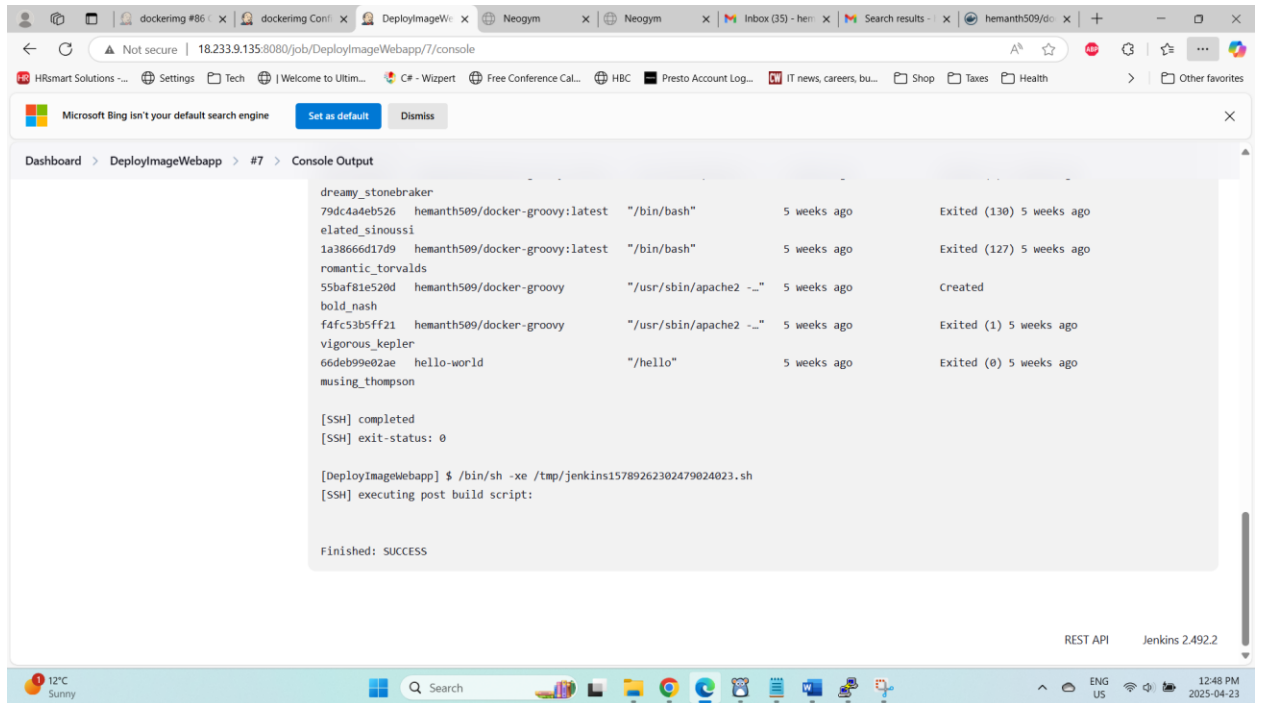
[Public view](#)

Verify CI pipeline is successful



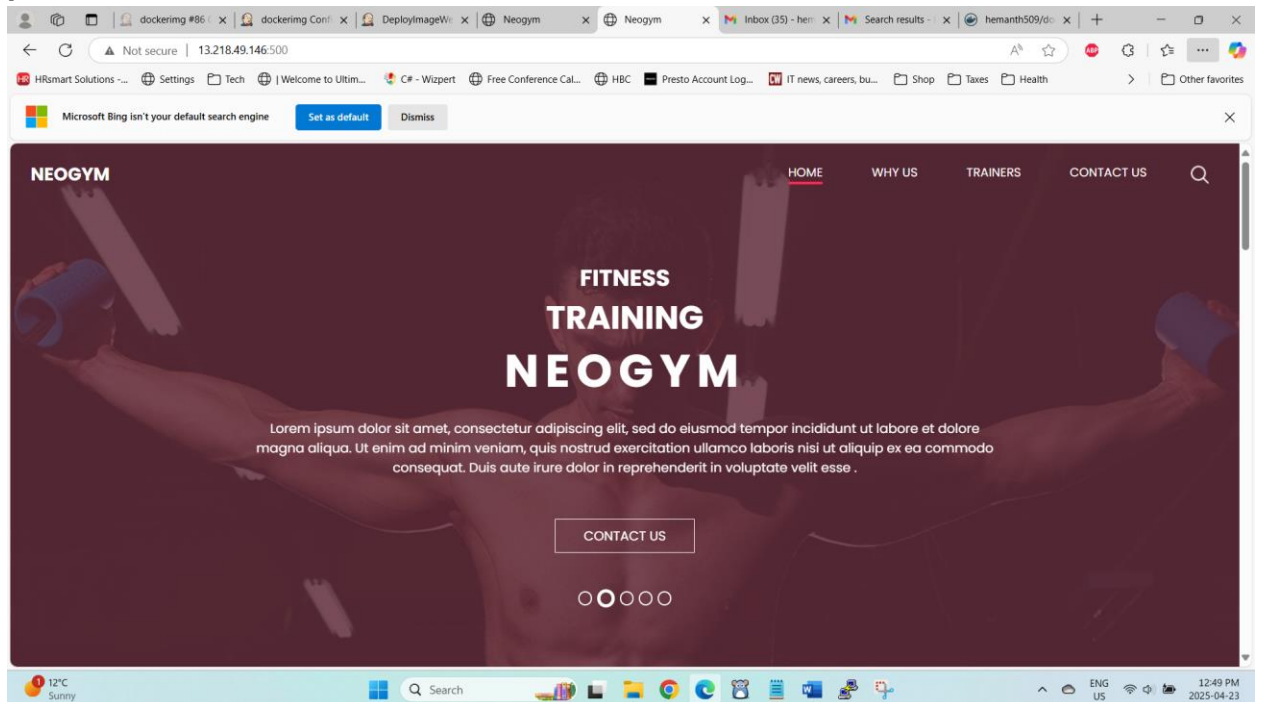
## 7. Verify the CD pipeline is successful





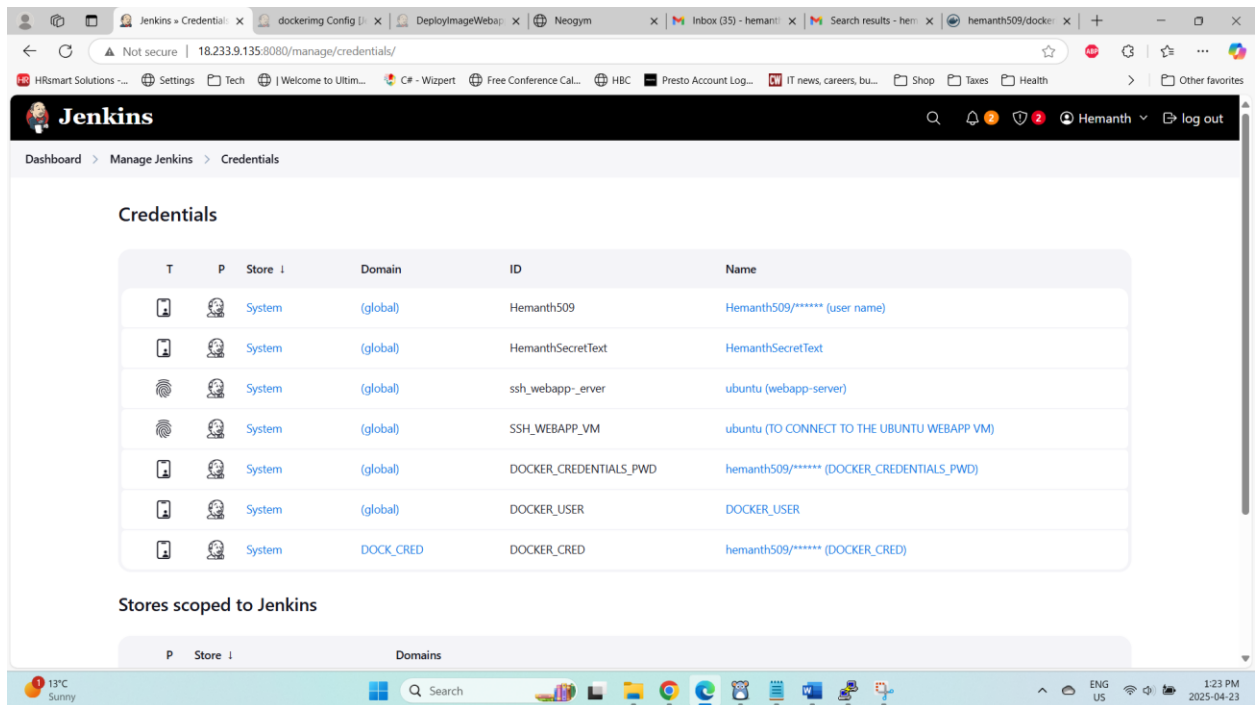
## 8. Verify the CD pipeline is successful

Docker image pull was successful on another web app server running on port 500





## 9. Add credentials in Jenkins

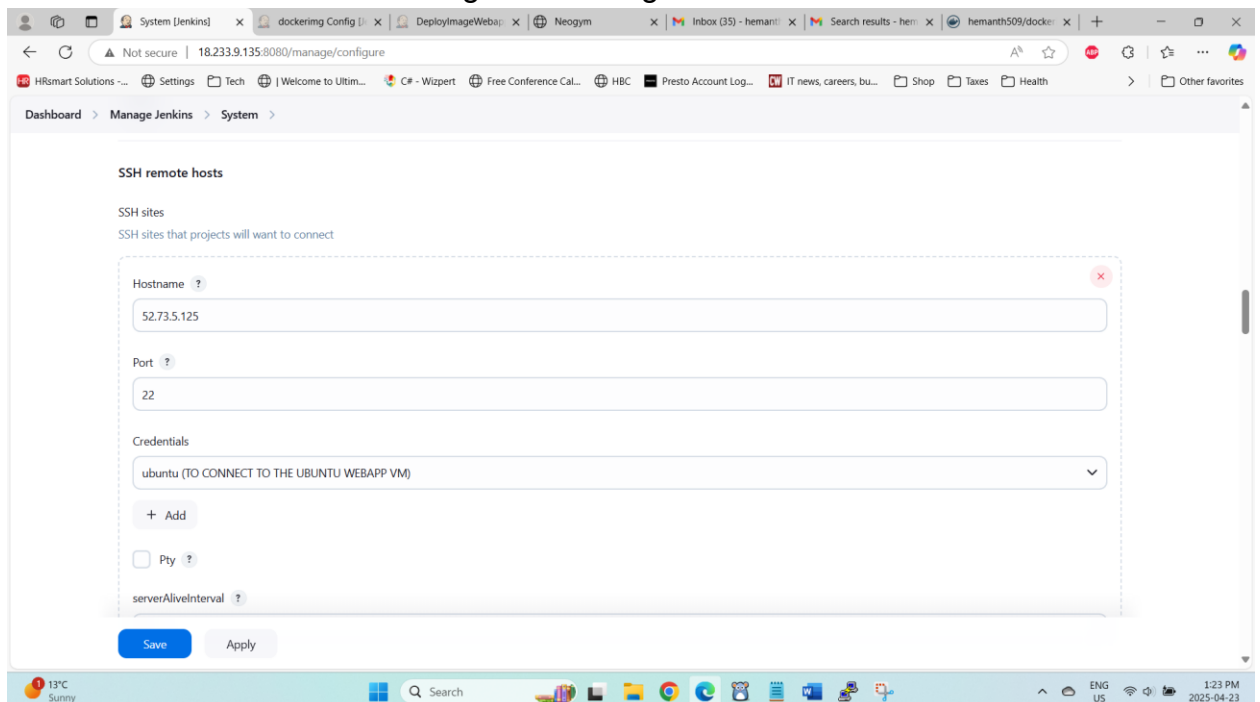


The screenshot shows the Jenkins web interface at the URL `18.233.9.135:8080/manage/credentials/`. The breadcrumb navigation is `Dashboard > Manage Jenkins > Credentials`. The main heading is **Credentials**. Below it is a table listing credentials:

T	P	Store	Domain	ID	Name
		System	(global)	Hemanth509	Hemanth509/***** (user name)
		System	(global)	HemanthSecretText	HemanthSecretText
		System	(global)	ssh_webapp_erver	ubuntu (webapp-server)
		System	(global)	SSH_WEBAPP_VM	ubuntu (TO CONNECT TO THE UBUNTU WEBAPP VM)
		System	(global)	DOCKER_CREDENTIALS_PWD	hemanth509/***** (DOCKER_CREDENTIALS_PWD)
		System	(global)	DOCKER_USER	DOCKER_USER
		System	DOCK_CRED	DOCKER_CRED	hemanth509/***** (DOCKER_CRED)

Below the table is a section titled **Stores scoped to Jenkins** with a table header showing `P Store` and `Domains`.

## 10. Add remote hosts for ssh under global settings



The screenshot shows the Jenkins web interface at the URL `18.233.9.135:8080/manage/configure`. The breadcrumb navigation is `Dashboard > Manage Jenkins > System`. The main heading is **SSH remote hosts**. Below it is the **SSH sites** section with the text "SSH sites that projects will want to connect".

There is a dashed box containing a form for adding a new SSH site:

- Hostname**: `52.73.5.125`
- Port**: `22`
- Credentials**: `ubuntu (TO CONNECT TO THE UBUNTU WEBAPP VM)`
- + Add** button
- ☐ **Pty**
- serverAliveInterval**

At the bottom of the form are **Save** and **Apply** buttons.