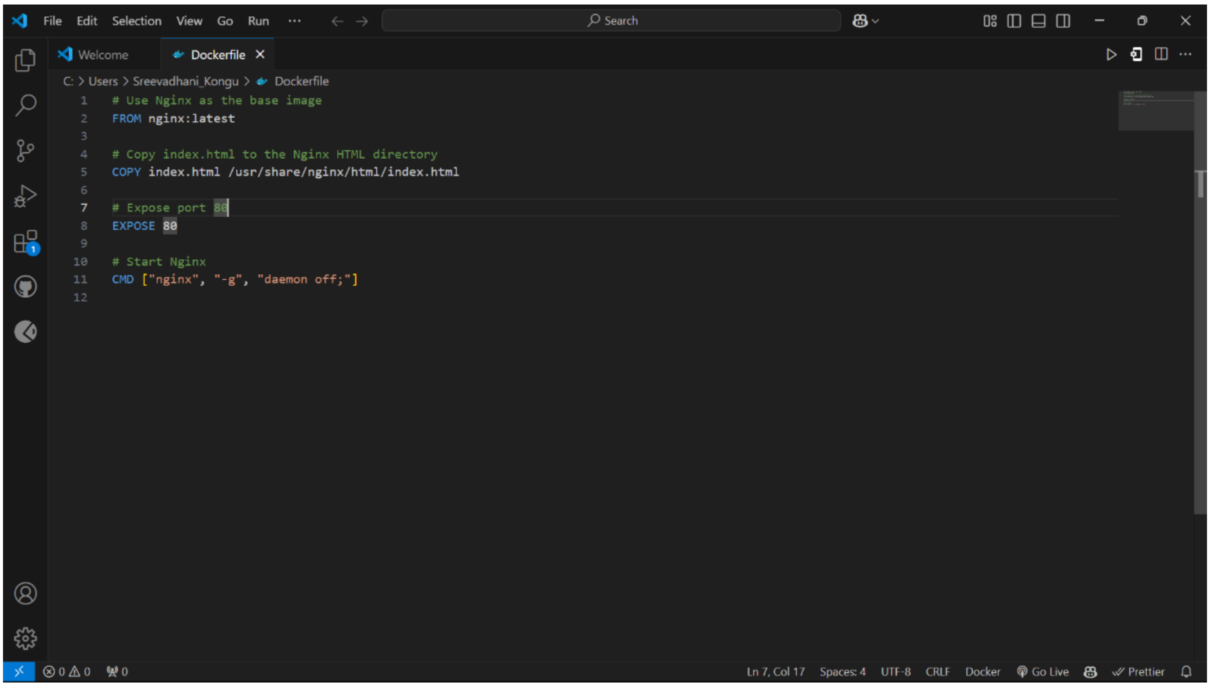
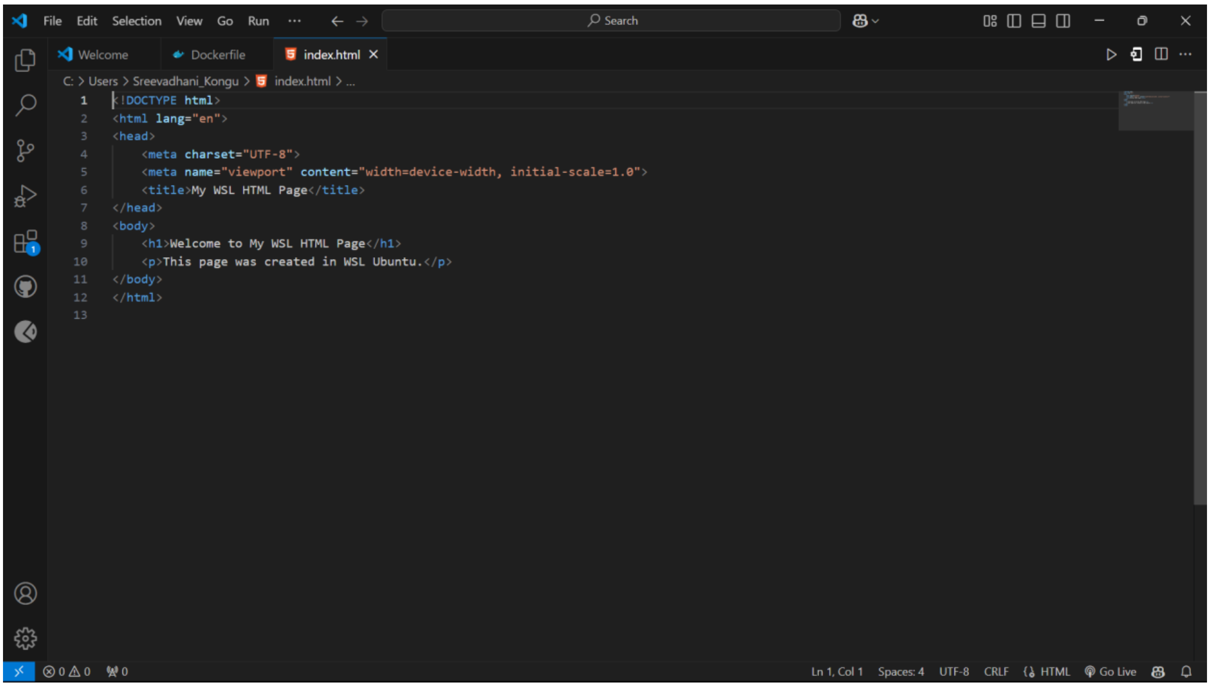
# TASK 2

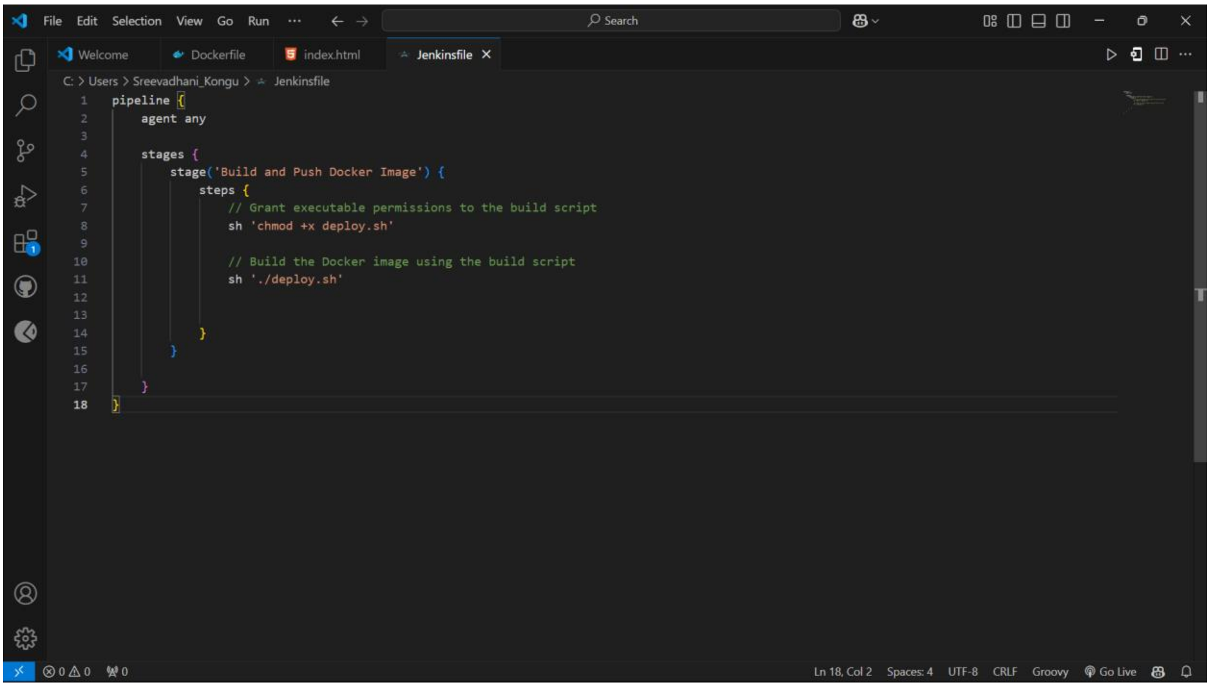
**Step 1:** Create a index.html , Dockerfile, Jenkinsfile, build.sh and deploy.sh files


File Edit Selection View Go Run ···
Search
Welcome
Dockerfile
C: > Users > Sreevadhani_Kongu > Dockerfile
Ln 7, Col 17 Spaces: 4 UTF-8 CRLF Docker Go Live Prettier

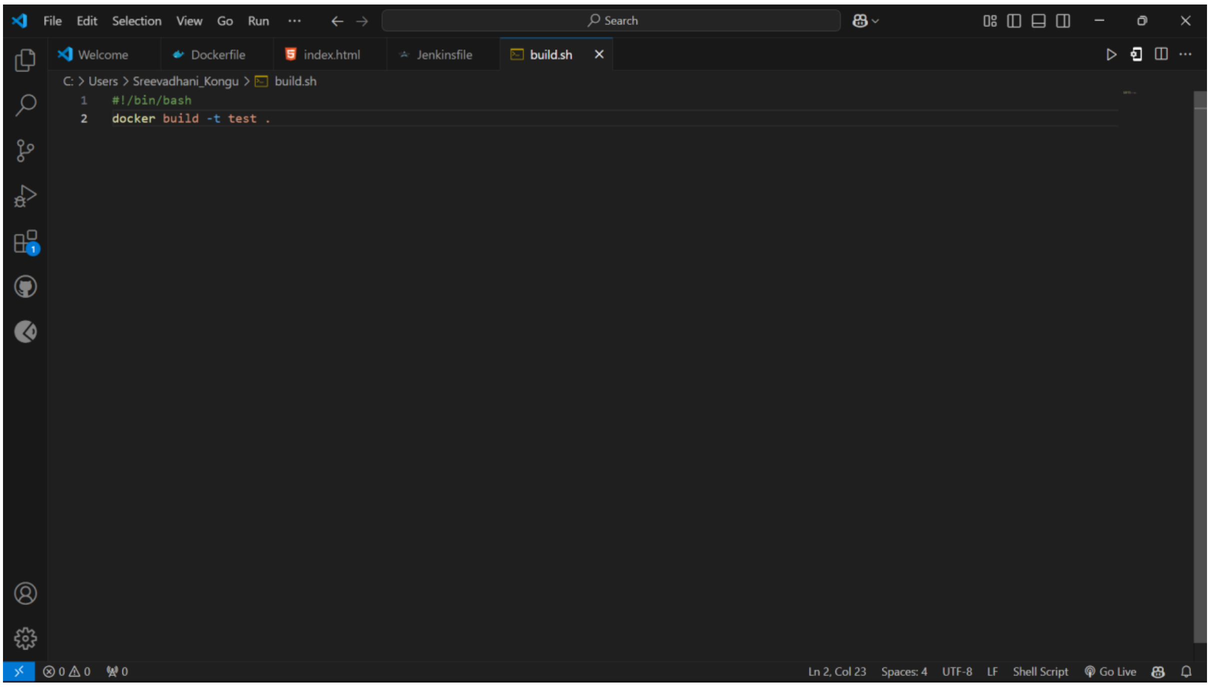
```
# Use Nginx as the base image
FROM nginx:latest

# Copy index.html to the Nginx HTML directory
COPY index.html /usr/share/nginx/html/index.html

# Expose port 80
EXPOSE 80

# Start Nginx
CMD ["nginx", "-g", "daemon off;"]
```


File Edit Selection View Go Run ···
Search
Welcome
Dockerfile
index.html
C: > Users > Sreevadhani_Kongu > index.html > ...
Ln 1, Col 1 Spaces: 4 UTF-8 CRLF HTML Go Live

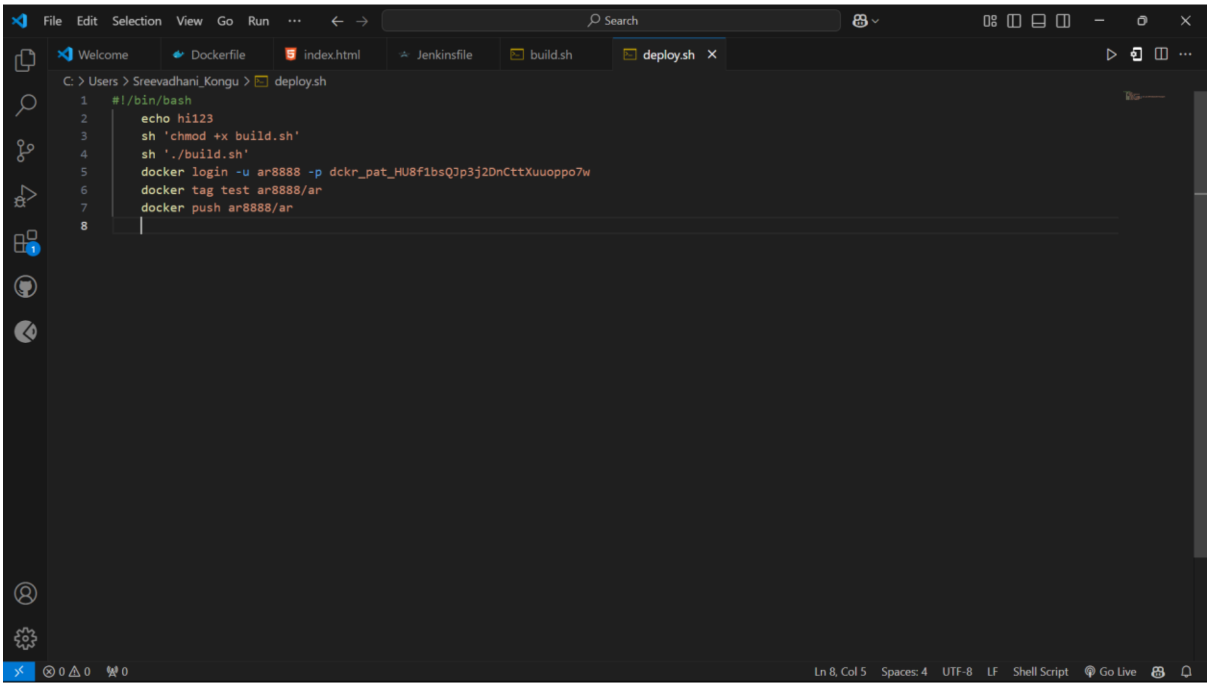
```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>My WSL HTML Page</title>
</head>
<body>
    <h1>Welcome to My WSL HTML Page</h1>
    <p>This page was created in WSL Ubuntu.</p>
</body>
</html>
```



```
pipeline {
    agent any

    stages {
        stage('Build and Push Docker Image') {
            steps {
                // Grant executable permissions to the build script
                sh 'chmod +x deploy.sh'

                // Build the Docker image using the build script
                sh './deploy.sh'


            }
        }

    }
}
```



```
#!/bin/bash
docker build -t test .
```

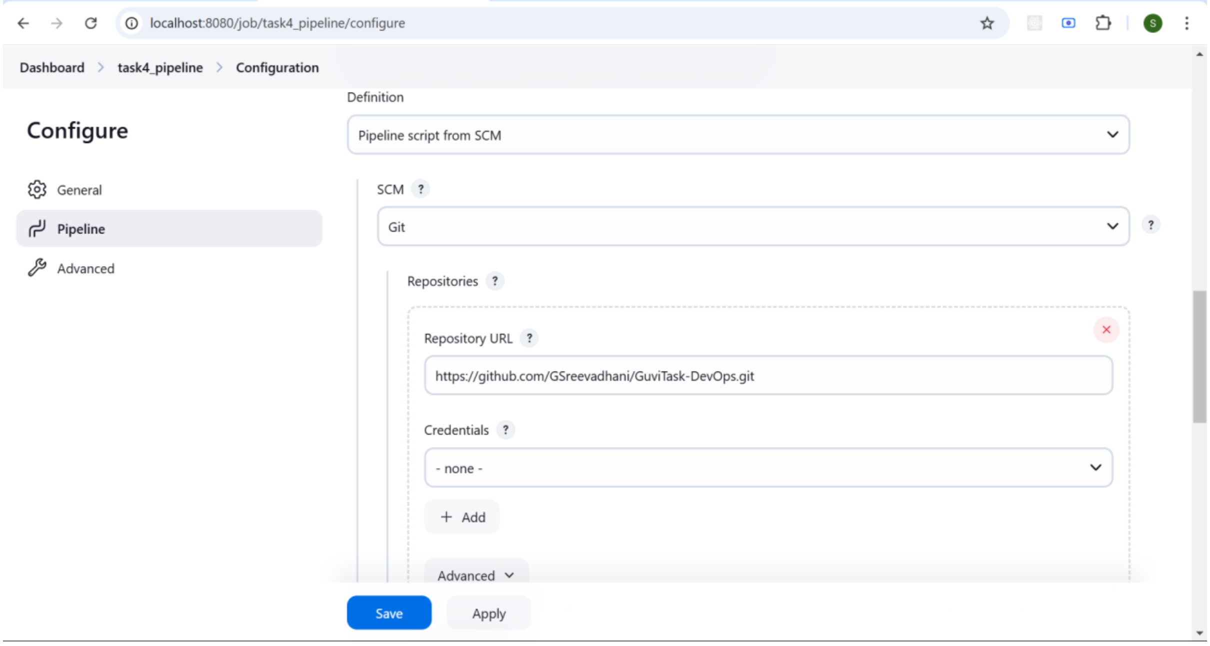


File Edit Selection View Go Run ···
Search
Welcome | Dockerfile | index.html | Jenkinsfile | build.sh | deploy.sh
C: > Users > Sreevadhani_Kongu > deploy.sh

```
#!/bin/bash
    echo hi123
    sh 'chmod +x build.sh'
    sh './build.sh'
    docker login -u ar8888 -p dckr_pat_HU8f1bsQJp3j2DnCttXuuoppo7w
    docker tag test ar8888/ar
    docker push ar8888/ar
```

⊗ 0 ⚠ 0 ⚙ 0
Ln 8, Col 5 Spaces: 4 UTF-8 LF Shell Script Go Live

**Step 2:** Check by creating a new pipeline



localhost:8080/job/task4_pipeline/configure
Dashboard > task4_pipeline > Configuration
Configure
General
Pipeline
Advanced

Definition: Pipeline script from SCM

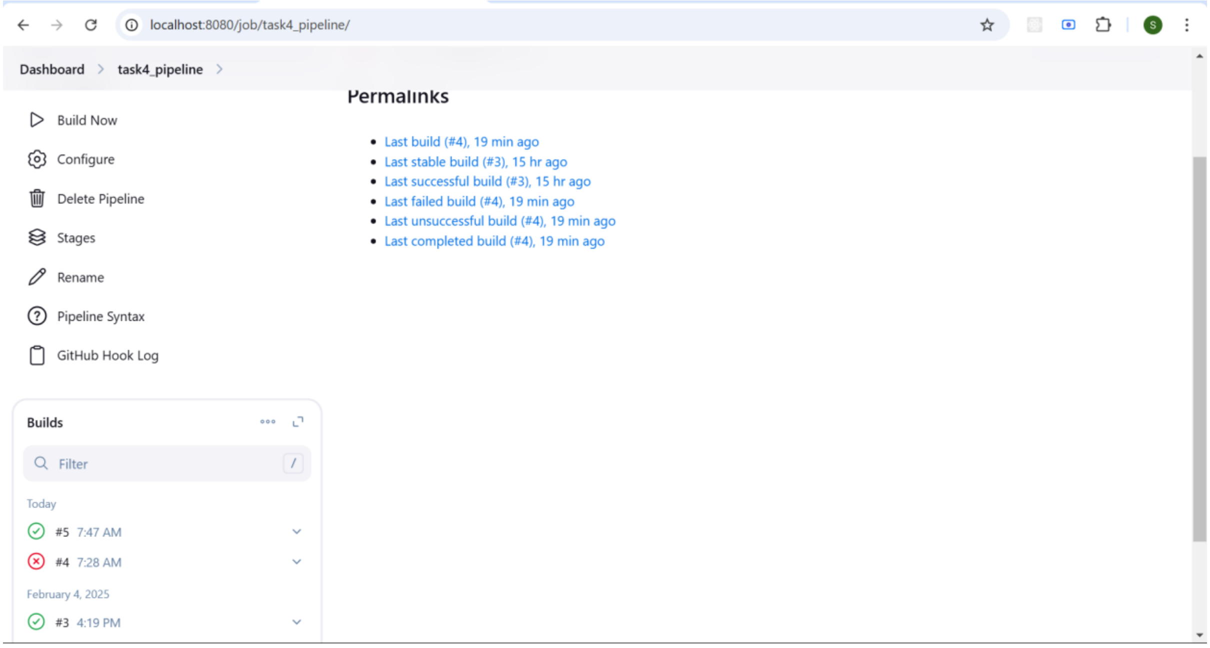
SCM: Git

Repositories

Repository URL: https://github.com/GSreevadhani/GuviTask-DevOps.git

Credentials: - none -

+ Add
Advanced
Save
Apply



localhost:8080/job/task4_pipeline/

Permalinks

- Last build (#4), 19 min ago
- Last stable build (#3), 15 hr ago
- Last successful build (#3), 15 hr ago
- Last failed build (#4), 19 min ago
- Last unsuccessful build (#4), 19 min ago
- Last completed build (#4), 19 min ago

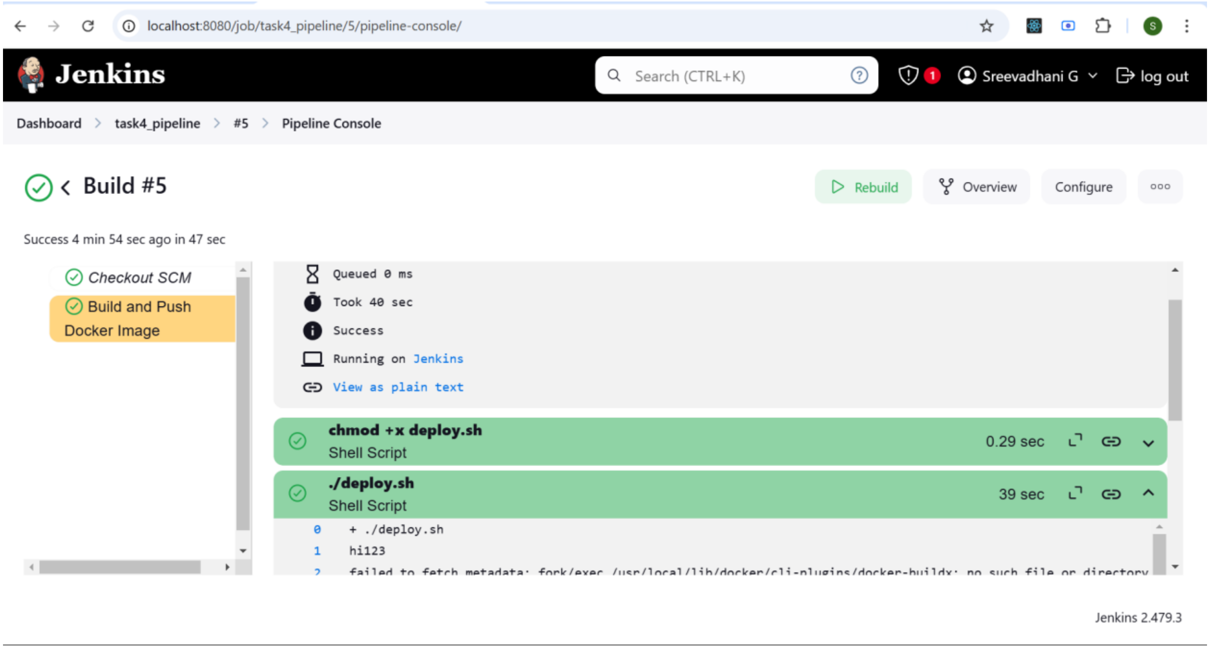
Today

✓ #5 7:47 AM

☒ #4 7:28 AM

February 4, 2025

✓ #3 4:19 PM



localhost:8080/job/task4_pipeline/5/pipeline-console/

✓ Build #5

Success 4 min 54 sec ago in 47 sec

✓ Checkout SCM

✓ Build and Push Docker Image

```
Queued 0 ms
Took 40 sec
Success
Running on Jenkins
View as plain text
```

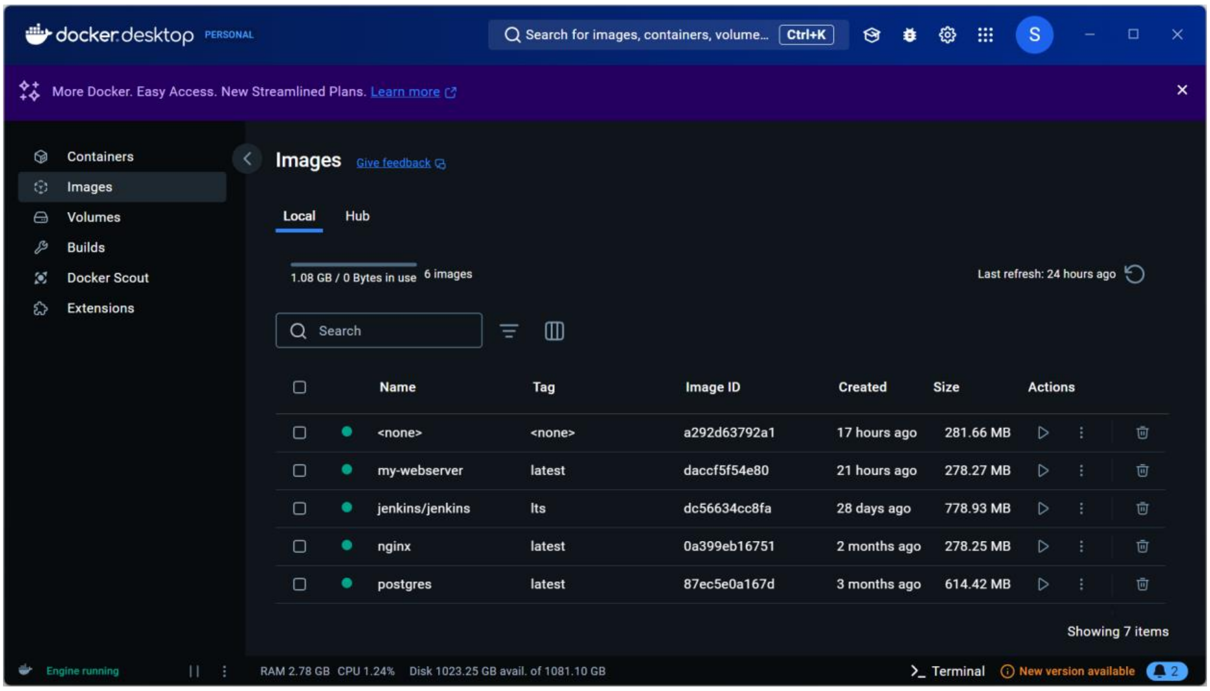
✓ **chmod +x deploy.sh** Shell Script 0.29 sec

✓ **./deploy.sh** Shell Script 39 sec

```
+ ./deploy.sh
hi123
failed to fetch metadata: fork/exec /usr/local/lib/docker/cli-plugins/docker-buildx: no such file or directory
```

Jenkins 2.479.3

**Step 3:** See to the docker if the image is created



Images

1.08 GB / 0 Bytes in use 6 images

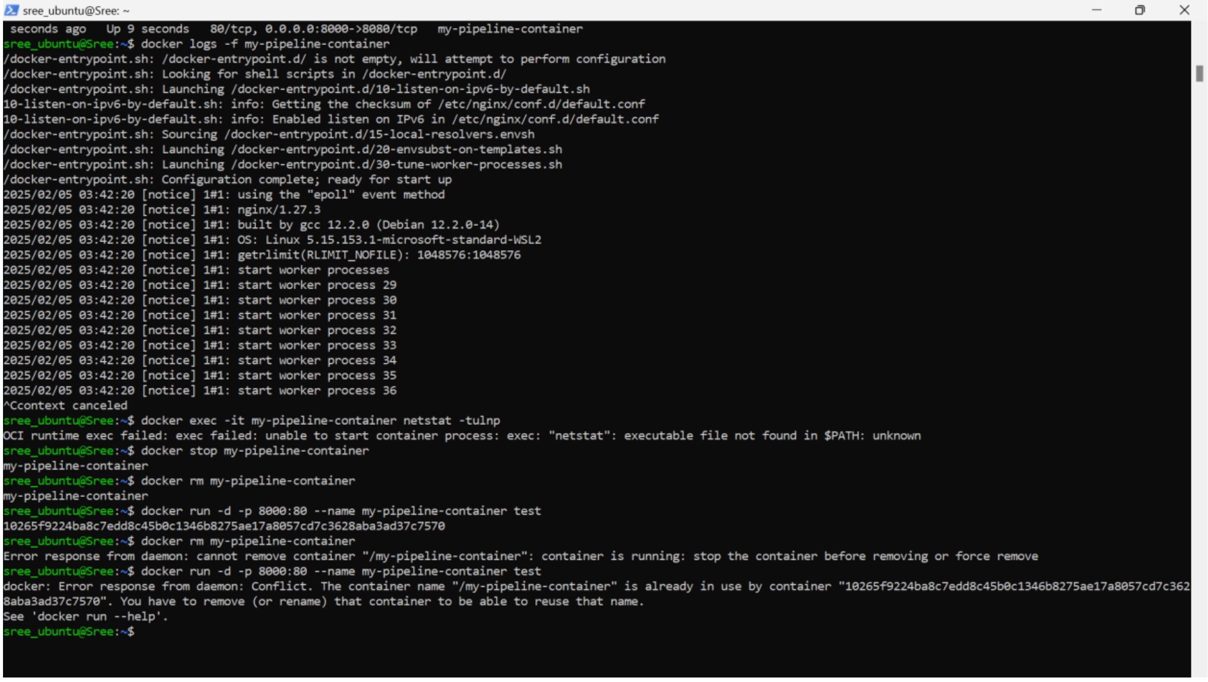
Last refresh: 24 hours ago

| □ | | Name | Tag | Image ID | Created | Size | Actions |
|---|---|---|---|---|---|---|---|
| □ | ● | <none> | <none> | a292d63792a1 | 17 hours ago | 281.66 MB | |
| □ | ● | my-webserver | latest | daccf5f54e80 | 21 hours ago | 278.27 MB | |
| □ | ● | jenkins/jenkins | lts | dc56634cc8fa | 28 days ago | 778.93 MB | |
| □ | ● | nginx | latest | 0a399eb16751 | 2 months ago | 278.25 MB | |
| □ | ● | postgres | latest | 87ec5e0a167d | 3 months ago | 614.42 MB | |

Showing 7 items

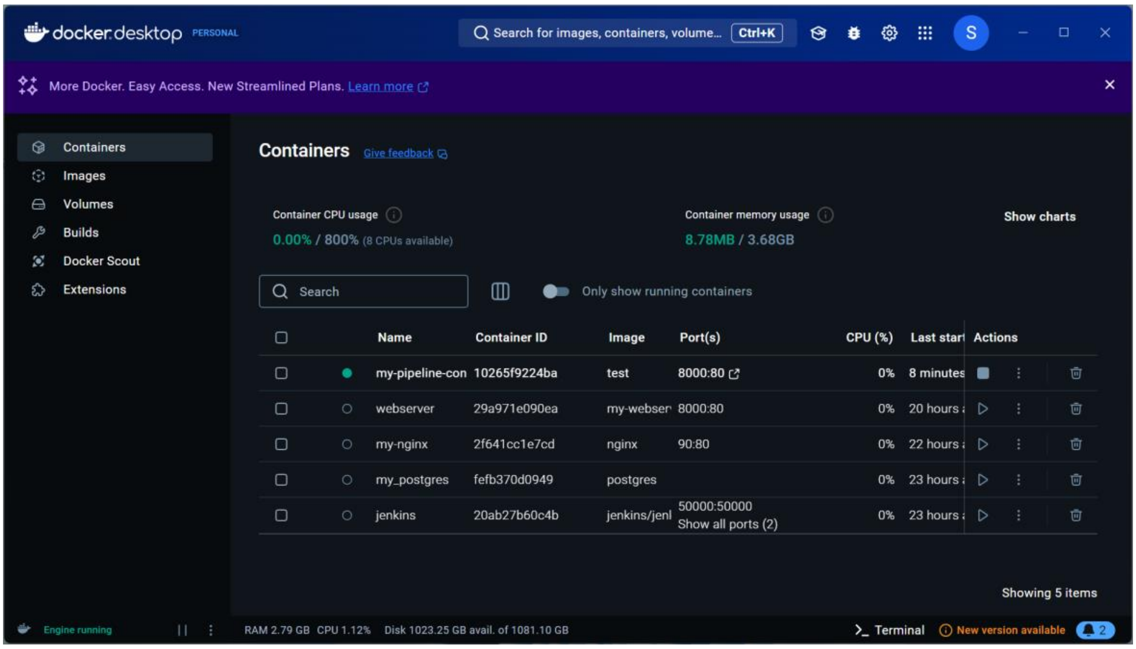
RAM 2.78 GB CPU 1.24% Disk 1023.25 GB avail. of 1081.10 GB

**Step 4:** Convert the image to container



```
 seconds ago   Up 9 seconds   80/tcp, 0.0.0.0:8000->8080/tcp   my-pipeline-container
sree_ubuntu@Sree:~$ docker logs -f my-pipeline-container
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf
10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf
/docker-entrypoint.sh: Sourcing /docker-entrypoint.d/15-local-resolvers.envsh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
/docker-entrypoint.sh: Configuration complete; ready for start up
2025/02/05 03:42:20 [notice] 1#1: using the "epoll" event method
2025/02/05 03:42:20 [notice] 1#1: nginx/1.27.3
2025/02/05 03:42:20 [notice] 1#1: built by gcc 12.2.0 (Debian 12.2.0-14)
2025/02/05 03:42:20 [notice] 1#1: OS: Linux 5.15.153.1-microsoft-standard-WSL2
2025/02/05 03:42:20 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2025/02/05 03:42:20 [notice] 1#1: start worker processes
2025/02/05 03:42:20 [notice] 1#1: start worker process 29
2025/02/05 03:42:20 [notice] 1#1: start worker process 30
2025/02/05 03:42:20 [notice] 1#1: start worker process 31
2025/02/05 03:42:20 [notice] 1#1: start worker process 32
2025/02/05 03:42:20 [notice] 1#1: start worker process 33
2025/02/05 03:42:20 [notice] 1#1: start worker process 34
2025/02/05 03:42:20 [notice] 1#1: start worker process 35
2025/02/05 03:42:20 [notice] 1#1: start worker process 36
^Ccontext canceled
sree_ubuntu@Sree:~$ docker exec -it my-pipeline-container netstat -tulnp
OCI runtime exec failed: exec failed: unable to start container process: exec: "netstat": executable file not found in $PATH: unknown
sree_ubuntu@Sree:~$ docker stop my-pipeline-container
my-pipeline-container
sree_ubuntu@Sree:~$ docker rm my-pipeline-container
my-pipeline-container
sree_ubuntu@Sree:~$ docker run -d -p 8000:80 --name my-pipeline-container test
10265f9224ba8c7edd8c45b0c1346b8275ae17a8057cd7c3628aba3ad37c7570
sree_ubuntu@Sree:~$ docker rm my-pipeline-container
Error response from daemon: cannot remove container "/my-pipeline-container": container is running: stop the container before removing or force remove
sree_ubuntu@Sree:~$ docker run -d -p 8000:80 --name my-pipeline-container test
docker: Error response from daemon: Conflict. The container name "/my-pipeline-container" is already in use by container "10265f9224ba8c7edd8c45b0c1346b8275ae17a8057cd7c362
8aba3ad37c7570". You have to remove (or rename) that container to be able to reuse that name.
See 'docker run --help'.
sree_ubuntu@Sree:~$
```

**Step 5:** Check whether the container is running



Containers

Container CPU usage
0.00% / 800% (8 CPUs available)

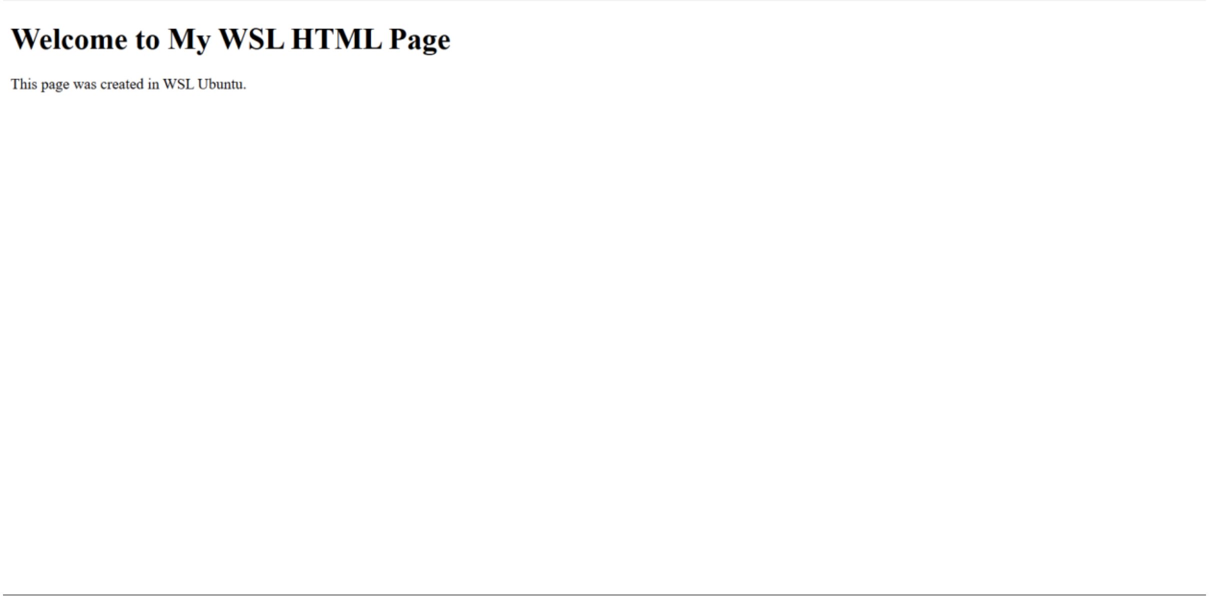
Container memory usage
8.78MB / 3.68GB

| | | Name | Container ID | Image | Port(s) | CPU (%) | Last start | Actions |
|---|---|---|---|---|---|---|---|---|
| □ | ● | my-pipeline-con | 10265f9224ba | test | 8000:80 | 0% | 8 minutes | |
| □ | ○ | webserver | 29a971e090ea | my-webser | 8000:80 | 0% | 20 hours | |
| □ | ○ | my-nginx | 2f641cc1e7cd | nginx | 90:80 | 0% | 22 hours | |
| □ | ○ | my_postgres | fefb370d0949 | postgres | | 0% | 23 hours | |
| □ | ○ | jenkins | 20ab27b60c4b | jenkins/jenl | 50000:50000<br>Show all ports (2) | 0% | 23 hours | |

Showing 5 items

RAM 2.79 GB CPU 1.12% Disk 1023.25 GB avail. of 1081.10 GB

**Step 6:** Go to http://localhost:8000 and verify the output



## Welcome to My WSL HTML Page

This page was created in WSL Ubuntu.