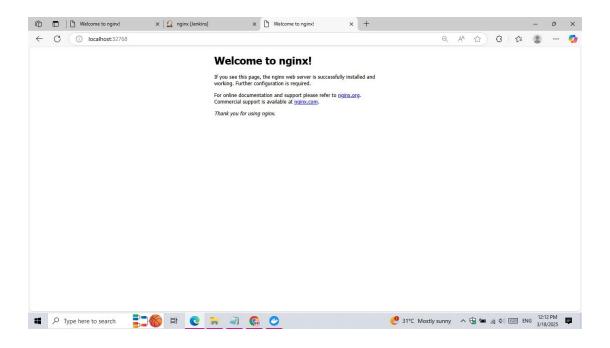
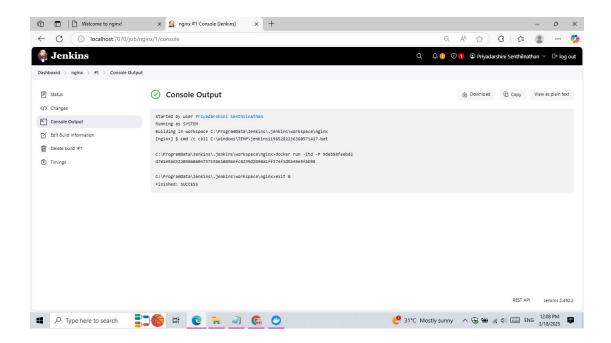
DEVOPS DAY-2

DATE:18.02.2025

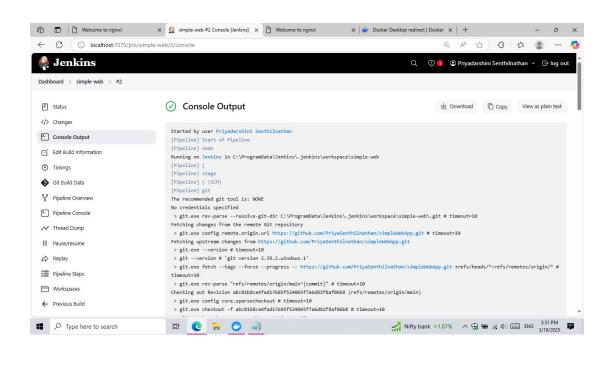
1. nginx using Jenkins

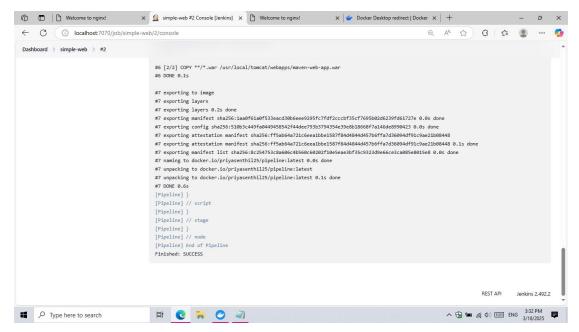


2. Console output for nginx using Jenkins

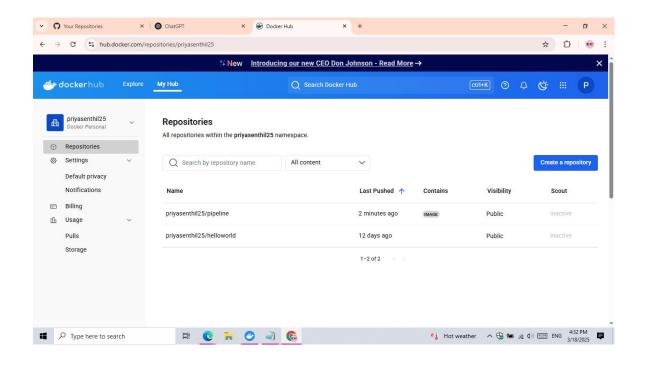


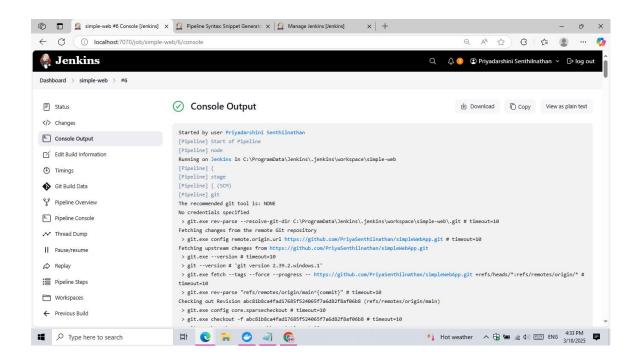
3. Pushing image from Jenkins to Docker

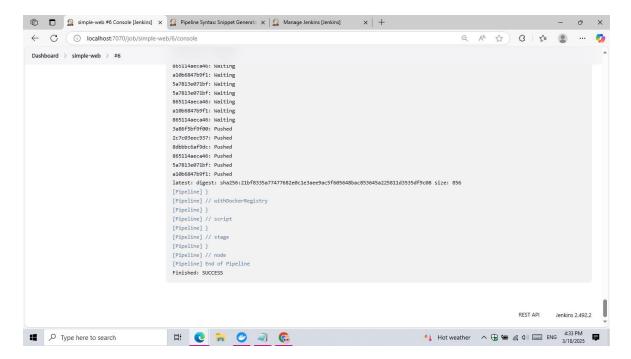




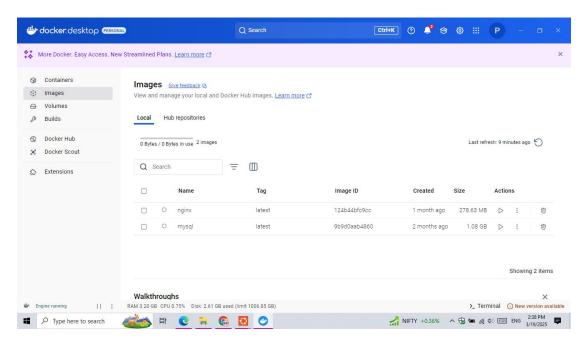
4. Pushing image from Jenkins to Docker Hub







5. Docker compose



```
| Seminary 1918 bulling fs layer | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.96 | 217.
```

COMMANDS:

I. Docker commands for Ubuntu

- 1. sudo apt install docker.io -y
- 2. sudo service docker restart
- 3. sudo service docker status
- 4. sudo usermod -aG docker \$USER
- 5. docker images
- 6. docker ps
- 7. sudo chmod 666 /var/run/docker.sock

II. Jenkins commands for Ubuntu

- 1. sudo service Jenkins restart
- 2. sudo service Jenkins status

III. Docker compose

- 1. sudo nano docker-compose.yml
- 2. docker-compose up -d
- 3. docker-compose images
- 4. docker-compose ps
- 5. docker-compose down

JENKINS

Jenkins is an open-source automation tool written in Java programming language that allows continuous integration.

Jenkins offers a straightforward way to set up a continuous integration or continuous delivery environment for almost any combination of languages and source code repositories using pipelines, as well as automating other routine development tasks. The following are the main or most popular Jenkins use cases:

- Continuous Integration: With Jenkins pipelines, we can achieve CI for both applications and infrastructure as code.
- Continuous Delivery: You can set up well-defined and automated application delivery workflows with Jenkins pipelines.

Jenkins achieves CI (Continuous Integration) and CD (Continuous Deployment) with the help of plugins. Plugins are used to allow the integration of various DevOps stages. If you want to integrate a particular tool, you must install the plugins for that tool.

ADVANTAGES OF JENKINS:

- It is an open-source tool.
- It is free of cost.
- It does not require additional installations or components. Means it is easy to install.
- Easily configurable.
- •It supports 1000 or more plugins to ease your work. If a plugin does not exist, you can write the script for it and share with community.
- It is built in java and hence it is portable.
- It is platform independent. It is available for all platforms and different operating systems. Like OS X, Windows, or Linux.
- Easy support since its open source and widely used.
- Jenkins also supports cloud-based architecture so that we can deploy Jenkins in cloud-based platforms.