DAY2:

DOCKER COMMANDS:

```
# Install Docker
sudo apt install docker.io -y
```

Restart Docker service sudo service docker restart

Check Docker status sudo service docker status

Add current user to the Docker group sudo usermod -aG docker \$USER

Verify Docker installation docker images docker ps

Fix permission issues with Docker socket sudo chmod 666 /var/run/docker.sock

DOCKER COMPOSE COMMANDS:

```
# Install Docker Compose sudo apt install docker-compose -y
```

Download the latest version of Docker Compose sudo curl -L "https://github.com/docker/compose/releases/latest/download/docker-compose-\$(uname -s)-\$(uname -m)" -o /usr/local/bin/docker-compose

Make Docker Compose executable sudo chmod +x /usr/local/bin/docker-compose

Check Docker Compose version docker-compose --version

Example docker-compose.yml file version: '3'

services: web:

image: nginx:latest

ports: - 80:80 db:

image: mysql:latest environment:

- MYSQL_ROOT_PASSWORD=secret

Start services using Docker Compose docker-compose up -d

Execute a shell inside the database container docker exec -it david-db-1 /bin/bash

Access MySQL inside the container mysql -u root -p

KUBERNETES COMMAND:

Download kubectl curl -LO https://dl.k8s.io/release/v1.32.0/bin/linux/amd64/kubectl

Install kubectl with correct permissions sudo install -o root -g root -m 0755 kubectl /usr/local/bin/kubectl

Make kubectl executable chmod +x kubectl

Create a local bin directory if it doesn't exist mkdir -p ~/.local/bin

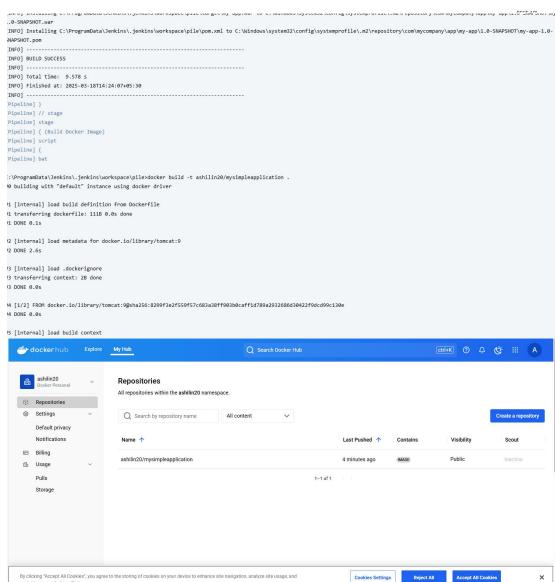
Move kubectl to the local bin directory mv ./kubectl ~/.local/bin/kubectl

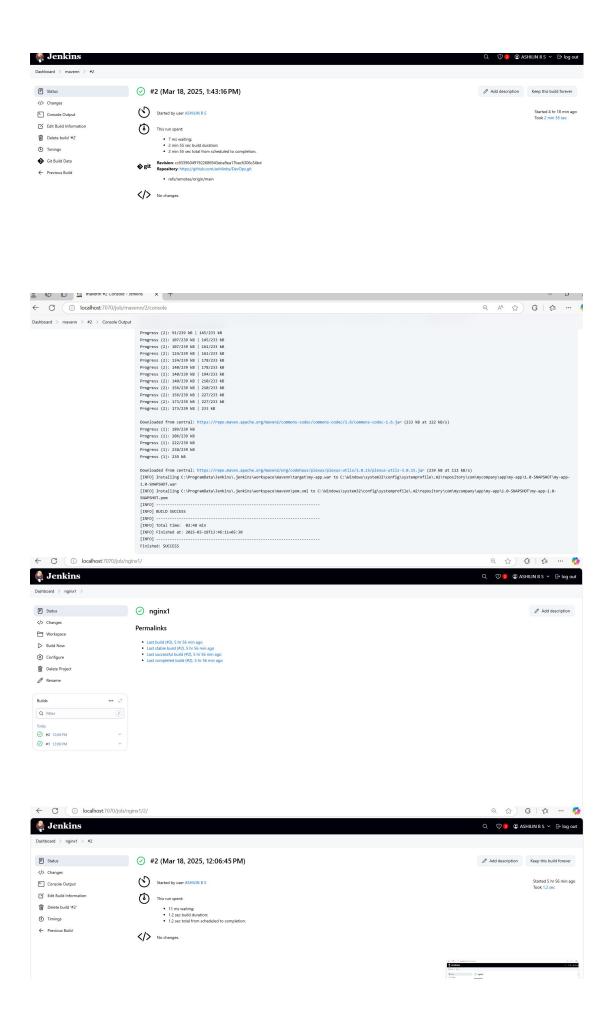
Verify kubectl installation kubectl version --client

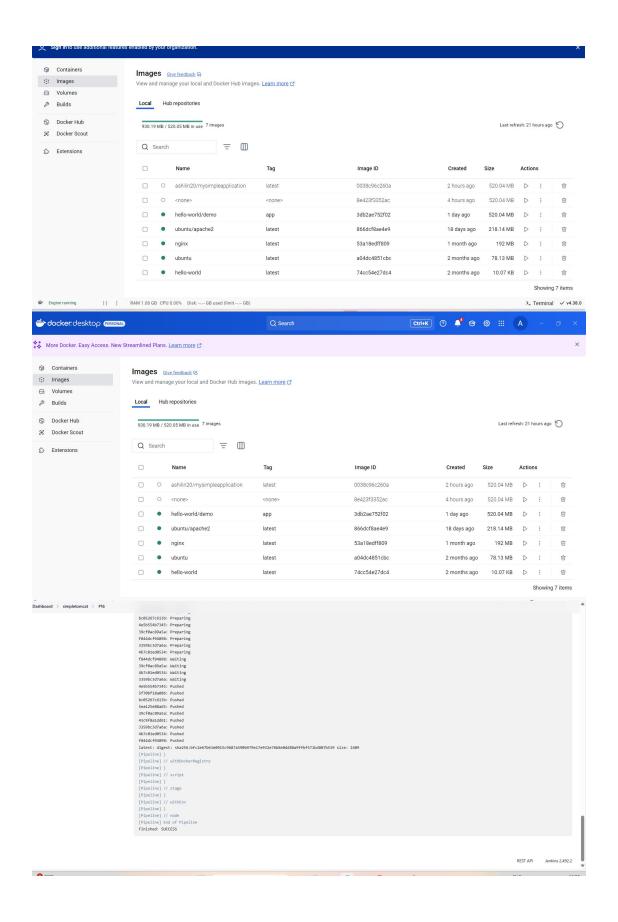
JENKINS:

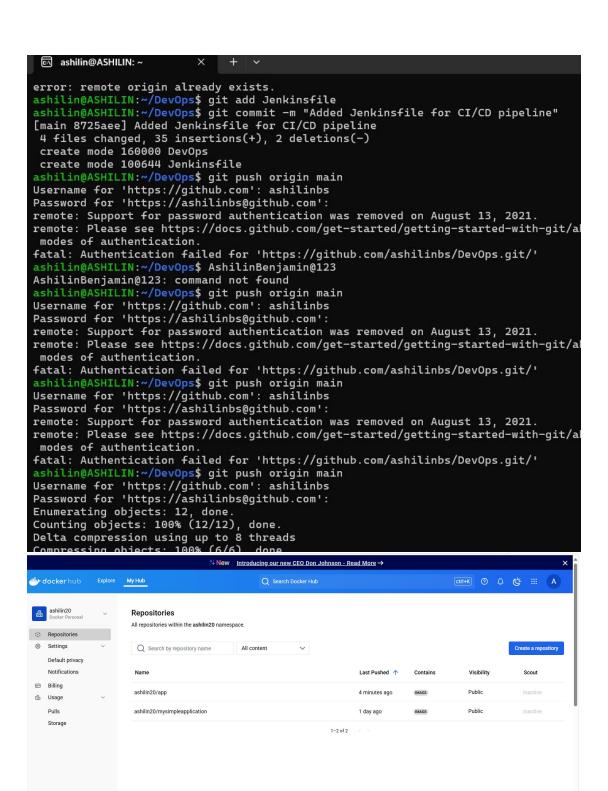
Jenkins is an open-source automation server widely used for Continuous Integration (CI) and Continuous Delivery (CD). It helps developers build, test, and deploy software efficiently by automating repetitive tasks

```
[Pipeline] node
Running on Jenkins in C:\ProgramData\Jenkins\.jenkins\workspace\pile [Pipeline] {
[Pipeline] stage
[Pipeline] { (SCM)
[Pipeline] git
The recommended git tool is: NONE
 No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/ashilinbs/DevOps.git
> git.exe init C:\ProgramData\Jenkins\.jenkins\workspace\pile # timeout-18
 Fetching upstream changes from https://github.com/ashilinbs/DevOps.git
 retcring upstream changes from https://github.com/ashlinos/uevups.git
> git.exe --version # timeout=10
> git --version # 'git version 2.46.0.windows.1'
> git.exe fetch --tags --force --progress -- https://github.com/ashllinbs/DevOps.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git.exe config remote.origin.url https://github.com/ashllinbs/DevOps.git # timeout=10
  > git.exe config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
> git.exe rev-parse "refs/remotes/origin/main^{commit}" # timeout=10
Checking out Revision cc833960491922686943eba9ea17bec6306c34bd (refs/remotes/origin/main)
  > git.exe config core.sparsecheckout # timeout=10
> git.exe checkout -f cc833968491922686943eba9ea17bec6306c34bd # timeout=10
> git.exe branch -a -v --no-abbrev # timeout-10
> git.exe checkout -b main cc833960491922686943eba9ea17bec6306c34bd # timeout-10
Commit message: "Added Dockerfile and Maven project"
First time build. Skipping changelog.
[Pipeline] }
[Pipeline] // stage
[Pipeline] // node
 [Pipeline] End of Pipeline
Finished: SUCCESS
```









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