

```
mandhu2645@LAPTOP-1TVBND2B:~$ docker-compose down
WARN[0000] /home/nandhu2645/docker-compose.yml: the attribute 'version
'is obsolete, it will be ignored, please remove it to avoid potential confusion
[+] Running 3/3

Container nandhu2645-web-1

Container nandhu2645-db-1

Network nandhu2645_default

Network nandhu2645_default

nandhu2645@LAPTOP-1TVBND2B:~$
```

```
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https://docs.docker.com/go/wsl2/
nandhu2645@LAPTOP-1TVBND2B:~$ docker-compose up -d
WARN[0000] /home/nandhu2645/docker-compose.yml: the attribute `version` is o
bsolete, it will be ignored, please remove it to avoid potential confusion [+] Running 11/11

✓db Pulled

√804bb8ae89de Pull complete

√1b515e7ceb69 Pull complete

   ✓eaa11c0a9f08 Pull complete
   ✓8d18181893b8 Pull complete
✓e0a910cc8604 Pull complete

√bc0c792ca096 Pull complete

    ✓8d73d2a73425 Pull complete

√4a7e00d873b9 Pull complete

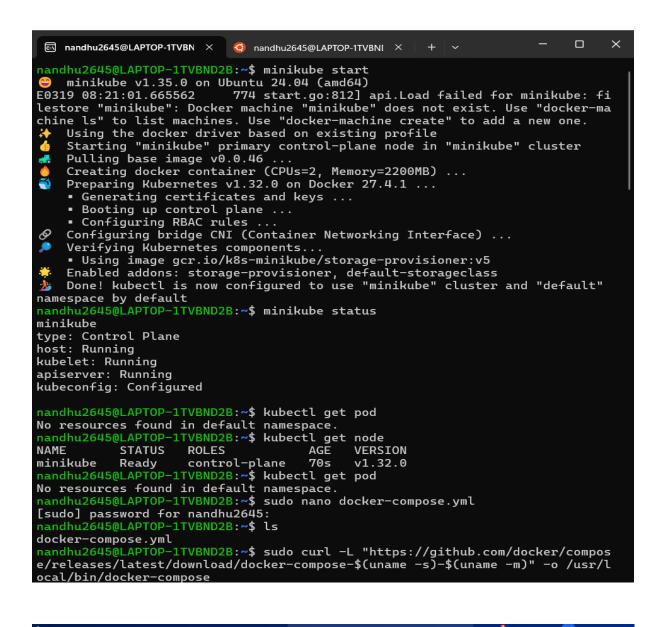
    27a2553d6a80 Pull complete

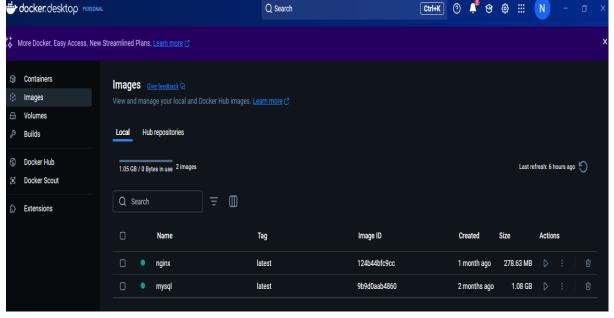
√69e76254f502 Pull complete

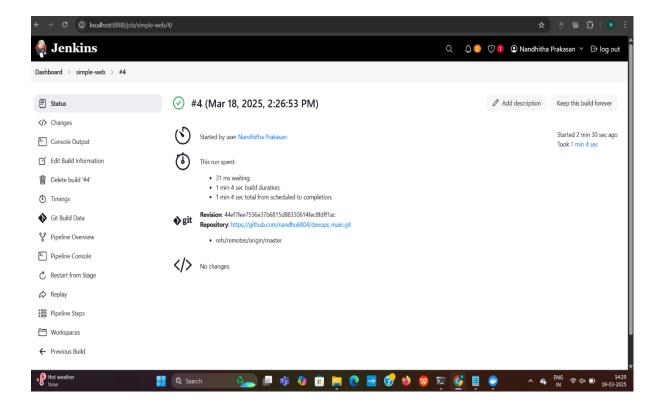
 ✓Network nandhu2645_default Created
 ✓Network handhu2010_

✓Container nandhu2645-db-1 Started

✓Container nandhu2645-web-1 Started
nandhu2645@LAPTOP-1TVBND2B:~$ docker-compose images
WARN[0000] /home/nandhu2645/docker-compose.yml: the attribute `version` is o
bsolete, it will be ignored, please remove it to avoid potential confusion CONTAINER REPOSITORY TAG IMAGE ID
CONTAINÉR
    SIZE
nandhu2645-db-1
                       mysql
                                               latest
                                                                      fa262c3a6564
    797MB
nandhu2645-web-1
                       nginx
                                               latest
                                                                      53a18edff809
    192MB
nandhu2645@LAPTOP-1TVBND2B:~$ docker-compose ps
WARN[0000] /home/nandhu2645/docker-compose.yml: the attribute `version` is o
bsolete, it will be ignored, please remove it to avoid potential confusion
                                                                                CREATED
NAME
                      IMAGE
                                       COMMAND
                                                                     SERVICE
                              PORTS
           STATUS
nandhu2645-db-1
                      mysql:latest
                                        "docker-entrypoint.s.."
                                                                     dЬ
                                                                                 32 seco
nds ago Up 25 seconds 3306/tcp, 33060/tcp
nandhu2645-web-1 nginx:latest "/docker-entrypoint..."
                                                                     web
                                                                                 32 seco
nds ago Up 25 seconds 0.0.0.0:80->80/tcp
nandhu2645@LAPTOP-1TVBND2B:~$ docker exec -it nandhu2645-db-1 /bin/bash
bash-5.1# nandhu2645@LAPTOP-1TVBND2B:~$
```







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.

```
PIPELINE CODE
pipeline {
  agent any
  stages {
    stage('SCM') {
      steps {
        git 'https://github.com/nandhu6804/devops_main.git'
      }
    }
    stage('Build'){
      steps {
        bat 'mvn clean install'
      }
    }
    stage('build to images'){
      steps{
        script{
           bat 'docker build -t nandhita22cse126/mysimplewebapp .'
        }
      }
```

```
stage('push to hub'){
    steps{
        script{
            withDockerRegistry(credentialsId: 'My_Credential', toolName: 'docker', url: 'https://index.docker.io/v1/') {
                bat 'docker push nandhita22cse126/mysimplewebapp'
            }
        }
    }
}
```