DevOps-Day 02:

Tasks Completed:

- I have installed virtual box and installed ubuntu in it.
- I have installed Jenkins in windows as well as in ubuntu.
- I have created a freestyle project and pipeline and run the index.jsp as well.
- Also created a pipeline Jenkins file and pushed it to the github repository as well.

-

Command

sudo wget -O /usr/share/keyrings/jenkins-keyring.asc \

https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key

echo "deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc]" \

https://pkg.jenkins.io/debian-stable binary/ | sudo tee \

/etc/apt/sources.list.d/jenkins.list > /dev/null

sudo apt-get update

sudo apt-get install Jenkins

sudo apt install docker.io -y

sudo usermod -aG Jenkins docker

stage('build to images') {

steps {

script{

tools {

    maven 'maven'
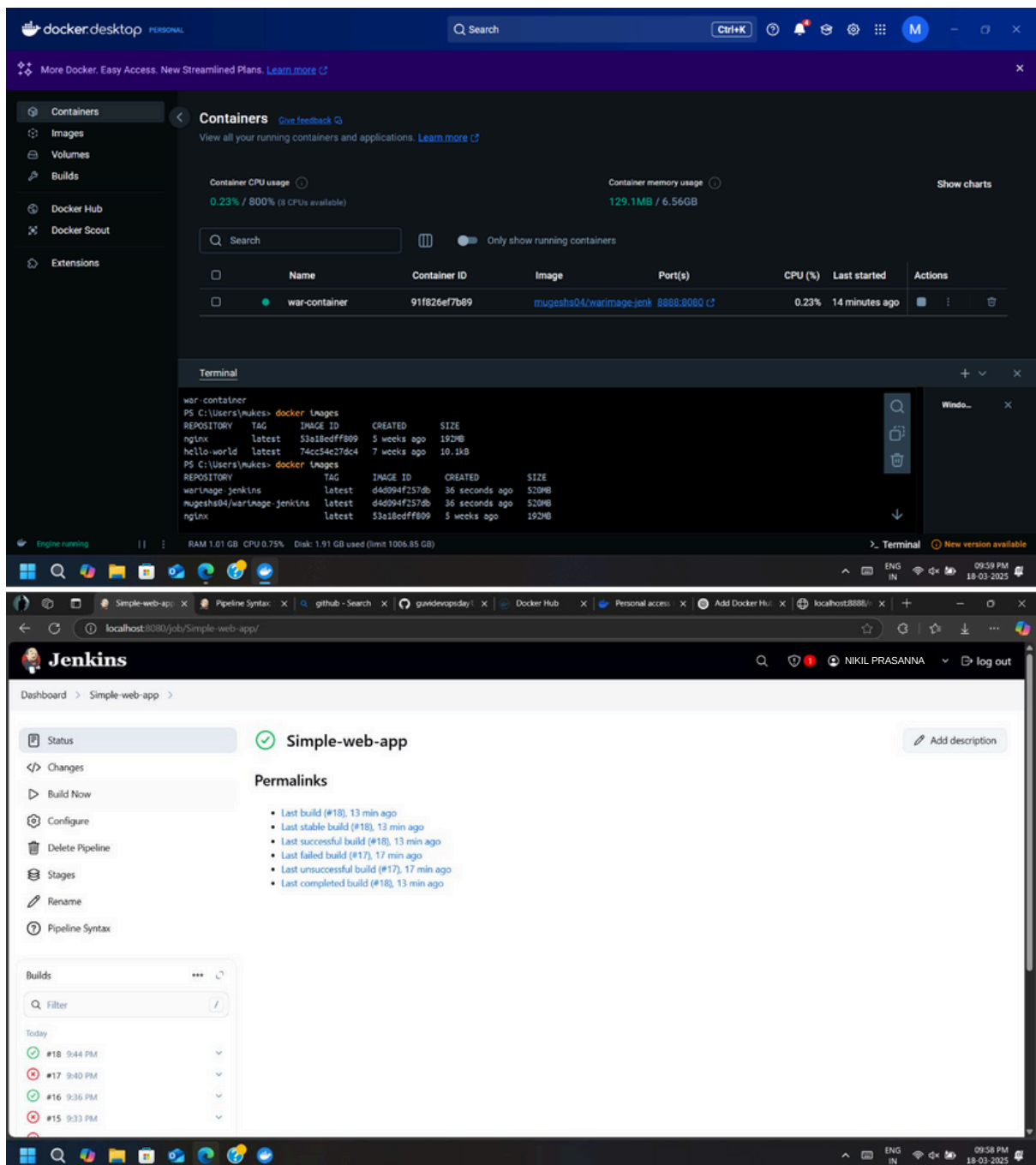
    docker 'docker'

  }

Configure

- General
- Triggers
- Pipeline
- Advanced

Pipeline

Define your Pipeline using Groovy directly or pull it from source control.

Definition

Pipeline script ▾

Script ?

```
33 ▾        stage('Run Docker Container') {
34 ▾            steps {
35 ▾                script {
36                     bat "docker run -d -p 8888:8080 --name war-container ${DOCKER_HUB_USERNAME}/warimage-jenkins:latest"
37                 }
38             }
39         }
40
41 ▾        stage('Push to Docker Hub') {
42 ▾            steps {
43 ▾                script {
44 ▾                    withDockerRegistry(credentialsId: 'docker-hub-credentials', url: 'https://index.docker.io/v1/') {
45                         // Push the correctly tagged image
46                         bat "docker push ${DOCKER_HUB_USERNAME}/warimage-jenkins:latest"
47                     }
48                 }
49
```

☑ Use Groovy Sandbox ?

Pipeline Syntax

Save   Apply

Hello World!

Terminal

```
f6ded9ead0d2   53a18edff809   "/docker-entrypoint..."   8 hours ago    Exited (255) 3 minutes ago   0.0.0.0:32770->80/tcp   xenodochial_brahmagup
ta
7cdad486b3d7   53a18edff809   "/docker-entrypoint..."   8 hours ago    Exited (255) 3 minutes ago   0.0.0.0:32769->80/tcp   adoring_dhawan
3ed45e390967   nginx:latest   "/docker-entrypoint..."   9 hours ago    Exited (137) 8 hours ago                             hungry_albattani
e42a587c9d86   nginx          "/docker-entrypoint..."   11 hours ago   Exited (137) 10 hours ago                            nginx-cont
4d1d3906b38b   nginx:latest   "/docker-entrypoint..."   11 hours ago   Exited (0) 8 hours ago                               brave_mcclintock
b3b7a58c5d71   hello-world    "/hello"                  2 weeks ago    Exited (0) 2 weeks ago                               cool_swirles
PS C:\Users\mukes> docker ps
CONTAINER ID   IMAGE   COMMAND   CREATED   STATUS   PORTS   NAMES
PS C:\Users\mukes>
```

Dashboard > Simple-web-app >

✓ Simple-web-app

Add description

Permalinks

- Last build (#5), 7 min 18 sec ago
- Last stable build (#5), 7 min 18 sec ago
- Last successful build (#5), 7 min 18 sec ago
- Last failed build (#4), 35 min ago
- Last unsuccessful build (#4), 35 min ago
- Last completed build (#5), 7 min 18 sec ago

Status
Changes
Build Now
Configure
Delete Pipeline
Stages
Rename
Pipeline Syntax

Builds

Filter

Today
✓ #5 2:38 PM
✗ #4 2:10 PM
✗ #3 2:08 PM
✗ #2 2:06 PM
✓ #1 1:56 PM

Jenkins

NIKIL PRASANNA   log out

Dashboard > nginx1 > #1 > Console Output

Status
Changes
Console Output
Edit Build Information
Delete build '#1'
Timings

✓ **Console Output**

Download   Copy   View as plain text

```
Started by user MUGESH SELVARAJ
Running as SYSTEM
Building in workspace C:\ProgramData\Jenkins\.jenkins\workspace\nginx1
[nginx1] $ cmd /c call C:\WINDOWS\TEMP\jenkins4049027325237375148.bat

C:\ProgramData\Jenkins\.jenkins\workspace\nginx1>docker run -itd -P 53a18edff809
f6ded9ead0d2c997eb22995a1ffac84951b8feb3a275c37792c5edca4d6f791e

C:\ProgramData\Jenkins\.jenkins\workspace\nginx1>exit 0
Finished: SUCCESS
```

REST API   Jenkins 2.501