UPES

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UNIVERSITY OF PETROLEUM & ENERGY STUDIES

Dehradun

APPLICATION CONTAINERIZATION

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Final Experiment

Ubuntu 20.04 - VMware Workstation

File Edit View VM Tabs Help

Home   Ubuntu 20.04

Activities   Terminal   May 3 16:22

rakshit@rakshit-virtual-machine: ~/lab_docker

```
 ---> Using cache
 ---> b7cf3661f962
Step 7/8 : EXPOSE 80
 ---> Using cache
 ---> 01441f91c803
Step 8/8 : CMD ["nginx"]
 ---> Using cache
 ---> a55d097bfc96
Successfully built a55d097bfc96
Successfully tagged lab_test_image:1.0
rakshit@rakshit-virtual-machine:~/lab_docker$ docker images
REPOSITORY        TAG       IMAGE ID        CREATED         SIZE
lab_test_image    1.0       a55d097bfc96    24 seconds ago  192MB
ubuntu            latest    7e0aa2d69a15    9 days ago      72.7MB
rakshit@rakshit-virtual-machine:~/lab_docker$ docker run -d a55d09
1a3d18b3d6357e98be7e7a2872132144f6f95283e12062e5ca433cd754d2105d
rakshit@rakshit-virtual-machine:~/lab_docker$ docker ps -a
CONTAINER ID    IMAGE     COMMAND     CREATED         STATUS         PORTS     NAMES
1a3d18b3d635    a55d09    "nginx"     7 seconds ago   Up 6 seconds   80/tcp    inspiring_wing
rakshit@rakshit-virtual-machine:~/lab_docker$ docker tag a55d09 rakshitkapoor456/lab_test_images:1.0
rakshit@rakshit-virtual-machine:~/lab_docker$ docker push rakshitkapoor456/lab_test_images:1.0
The push refers to repository [docker.io/rakshitkapoor456/lab_test_images]
df6c5c60c986: Pushed
1b2f6339a410: Pushing [====>                              ]  5.452MB/54.99MB
fd70734cc396: Pushing [===============>                   ]  11.62MB/36.38MB
ff6a5e655f2c: Pushing [=============>                     ]  6.772MB/27.98MB
2f140462f3bc: Mounted from library/ubuntu
63c99163f472: Mounted from library/ubuntu
ccdbb80308cc: Waiting
```

To direct input to this VM, move the mouse pointer inside or press Ctrl+G.

---

docker hub   🔍 Search for great content (e.g., mysql)   Explore   Repositories   Organizations   Get Help ▾   rakshitkapoor456 ▾

rakshitkapoor456 ▾   🔍 Search by repository name   **Create Repository**

rakshitkapoor456 / **lab_test_images**   ⊘ Not Scanned   ☆ 0   ↓ 1   ⊘ Public
Updated a few seconds ago

🌐 **rakshitkapoor456 / lab_test_images**

This repository does not have a description ✎

🕐 Last pushed: 29 minutes ago

Docker commands   **Public View**

To push a new tag to this repository,

```
docker push rakshitkapoor456/lab_test_images:tagname
```

Tags and Scans   ⊘ VULNERABILITY SCANNING - DISABLED   **Recent builds**
                                             Enable
This repository contains 1 tag(s).   Link a source provider and run a build to see build results here.

TAG   OS   PULLED   PUSHED

● 1.0   △   29 minutes ago   29 minutes ago

See all

Terminal Host 1 +

Your Interactive Bash Terminal. A safe place to learn and execute commands.

```
$ docker swarm init
Swarm initialized: current node (905hji5u6f0chv5fxbjsuaykc) is now a manager.

To add a worker to this swarm, run the following command:

    docker swarm join --token SWMTKN-1-0abyjgi8qlri27tbfjs9dmegnfbo9w3jhqc6ufppi
e110h99xm-03e1972zdsbcr81m4x1qwab0h 172.17.0.20:2377

To add a manager to this swarm, run 'docker swarm join-token manager' and follow
 the instructions.

$
```

Terminal Host 2

```
SWMTKN-1-0abyjgi8qlri27tbfjs9dmegnfbo9w3jhqc6ufppie110h99xm-03e1972zdsbcr81m4x1qwab0h
$ docker swarm join 172.17.0.20:2377 --token $token
This node joined a swarm as a worker.
$ docker pull rakshitkapoor456/lab_test_images:1.0
1.0: Pulling from rakshitkapoor456/lab_test_images
345e3491a907: Pull complete
57671312ef6f: Pull complete
5e9250ddb7d0: Pull complete
c24a885d04c8: Pull complete
785e874947a7: Pull complete
62799e759c0c: Pull complete
33e8b9d9454a: Pull complete
Digest: sha256:d5aaa5fac5567295e0e906c492fe2bd6eda826f69ae080e83787e4a7dc870fd3
Status: Downloaded newer image for rakshitkapoor456/lab_test_images:1.0
docker.io/rakshitkapoor456/lab_test_images:1.0
$
```

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To add a manager to this swarm, run 'docker swarm join-token manager' and follow
 the instructions.

$
```

Terminal Host 2

```
require 'docker login': denied: requested access to the resource is denied.
See 'docker run --help'.
$ docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
rakshitkapoor456/lab_test_images	1.0	a55d097bfc96	25 minutes ago	192MB
mariadb	10	1b3986d60f13	5 months ago	414MB
mariadb	latest	1b3986d60f13	5 months ago	414MB
redis	latest	62f1d3402b78	6 months ago	104MB
ubuntu	latest	d70eaf7277ea	6 months ago	72.9MB
mysql	8	db2b37ec6181	6 months ago	545MB
mysql	latest	db2b37ec6181	6 months ago	545MB
alpine	latest	d6e46aa2470d	6 months ago	5.57MB
postgres	12	492fb9ae4e7a	6 months ago	314MB
postgres	latest	c96f8b6bc0d9	6 months ago	314MB
mongo	latest	ba0c2ff8d362	7 months ago	492MB
weaveworks/scope	1.11.4	a082d48f0b39	21 months ago	78.5MB

Terminal Host 1 ✛

```
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e110h99xm-03el972zdsbcr81m4x1qwab0h 172.17.0.20:2377

To add a manager to this swarm, run 'docker swarm join-token manager' and follow
 the instructions.

$ []
```

Terminal Host 2

```
See 'docker run --help'.
$ docker pull rakshitkapoor456/lab_test_images:1.0
1.0: Pulling from rakshitkapoor456/lab_test_images
Digest: sha256:d5aaa5fac5567295e0e906c492fe2bd6eda826f69ae080e83787e4a7dc870fd3
Status: Image is up to date for rakshitkapoor456/lab_test_images:1.0
docker.io/rakshitkapoor456/lab_test_images:1.0
$ docker run rakshitkapoor456/lab_test_images:1.0

^[[A^[[A^[[B^X^C$ docker run rakshitkapoor456/lab_test_images:1.0
^Z^[[A^C$
$ docker run -d rakshitkapoor456/lab_test_images
Unable to find image 'rakshitkapoor456/lab_test_images:latest' locally
docker: Error response from daemon: manifest for rakshitkapoor456/lab_test_images:latest not found: manifest
unknown: manifest unknown.
See 'docker run --help'.
$ []
```