Practice LAB

To change the user name in Linux:

- 1.check your user name >whoami
- 2. Create a temporary user>sudo adduser tempadmin
- 3. Add the new user to sudoers> sudo usermod -aG sudo tempadmin
- 4. Logout from the current user via GUI and login to tempadmin
- 5. In the terminal of tempadmin,>sudo usermod -l 1RV24MC025_CHANDAN_K chandan
- 6. Now type the below command in original user after logging again via GUI: >whoami

```
1RV24MC025_CHANDAN_K@chandan-Vivobook-ASUSLaptop-M6500QC-M6500QC:~$ whoami
1RV24MC025_CHANDAN_K
1RV24MC025_CHANDAN_K@chandan-Vivobook-ASUSLaptop-M6500QC-M6500QC:~$ sudo deluser tempadmin
[sudo] password for 1RV24MC025_CHANDAN_K:
info: Removing crontab ...
info: Removing user `tempadmin' ...
```

7. Remove the temp user, delete it >sudo deluser tempadmin >sudo rm -r /home/tempadmin

Install DOCKER using the apt repository

Before you install Docker Engine for the first time on a new host machine, you need to set up the Docker apt repository. Afterward, you can install and update Docker from the repository.

1. Set up Docker's aptrepository.

sudo apt-get update

```
# Add Docker's official GPG key:
sudo apt-get update
sudo apt-get install ca-certificates curl
sudo install -m 0755 -d /etc/apt/keyrings
sudo curl -fsSL https://download.docker.com/linux/ubuntu/gpg -o
/etc/apt/keyrings/docker.asc
sudo chmod a+r /etc/apt/keyrings/docker.asc

# Add the repository to Apt sources:
echo \
"deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.asc]
https://download.docker.com/linux/ubuntu \
$(. /etc/os-release && echo "${UBUNTU_CODENAME:-$VERSION_CODENAME}")
stable" | \
sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
```

```
IRV24MC025_CHANDAN_K@chandan-Vivobook-ASUSLaptop-M6500QC-M6500QC:-$ sudo apt-get install ca-certificates curl
Reading package lists... Done
Reading state information... Done
Reading state information...
Reading
```

2.Install the Docker packages.

> sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin Docker-compose-plugin

```
IRV24MC025_CHANDAN_K@chandan-Vivobook-ASUSLaptop-M6500QC-M6500QC:-$ sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin Reading package lists... Done
Reading state information... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
liblivm17t64 python3-netifaces
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
docker-ce-rootless-extras
Suggested packages:
cgroupfs-mount | cgroup-lite docker-model-plugin
The following packages will be upgraded:
containerd.io docker-buildx-plugin docker-ce docker-ce-cli docker-ce-rootless-extras docker-compose-plugin
6 upgraded, 0 newly installed, 0 to remove and 470 not upgraded.
Need to get 105 MB of archives.
After this operation, 5,332 kB disk space will be freed.
Do you want to continue? [Y/n] Y
Get:1 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-ce-cli amd64 1.7.28-1-ubuntu.24.04-noble [31.9 MB]
Get:2 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-ce-amd64 5:28.5.1-1-ubuntu.24.04-noble [15.7 MB]
Get:4 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-ce-amd64 5:28.5.1-1-ubuntu.24.04-noble [15.7 MB]
Get:4 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-ce-amd64 5:28.5.1-1-ubuntu.24.04-noble [15.9 MB]
Get:5 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-ce-plugin amd64 2.40.0-1-ubuntu.24.04-noble [16.481 kB]
Get:6 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-compose-plugin amd64 2.40.0-1-ubuntu.24.04-noble [14.2 MB]
Fetched 105 MB in 125 (8,880 kB)(8)(
Reading database ... 232379 files and directories currently installed.)
```

Check docker status

> sudo systemctl status docker

The Docker service starts automatically after installation. To verify that Docker is running, use:

Some systems may have this behavior disabled and will require a manual start: sudo systemctl start docker

4. Run a sample container >sudo docker run hello-world

```
INDIANCOSE_CHANDAN_Kechandan-Vivobook-ASUSLaptop-M6500QC:—6500QC:—S sudo docker run hello-world unable to find image 'hello-world:latest' locally latest: Pulling from library/hello-world latest: Pulling from library/hello-world proceedings of the pulling from library from the pulling from locker!

This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
1. The Docker Client contacted the Docker daenon.
2. The Docker daenon pulled the "hello-world" inage from the Docker Hub. (and64)
3. The Docker daenon pulled the "hello-world" inage from the the pulled from the executable that produces the output you are currently reading.
4. The Docker daenon streamed that output to the Docker Client, which sent it to your terminal.

To try something more ambitious, you can run an Ubuntu container with: $ docker run it ubuntu bash

Share images, automate workflows, and more with a free Docker ID: https://docs.docker.com/get-started/
```