#### Lab 1: Docker Installation

## **Step 1: Changing the username**

- > whoami # for currently logged in username
- # Changing the username to the given format
- > boot into recovery mode
- > access root terminal
- > usermod -l new name old name
- > usermod -d /home/new\_name -m new\_name
- > groupmod -n new\_name old\_name
- > id new name
- > reboot

## Step 2: Uninstall the current installation of docker

## Removing docker

- >docker ps
- > sudo systemctl stop docker
- > sudo systemctl stop docker.socket
- > sudo systemctl stop docker
- > sudo apt-get purge -y docker-engine docker docker.io docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin

# Step 3: Reinstalling docker by following the instructions on the official website

## installing docker

```
# 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
sudo apt-get update
sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin
```

- > sudo systemctl status docker
- > sudo systemctl start docker
- > docker ps

#### **Screenshots**

Figure 1: whoami output

```
docker --version
Docker version 28.5.1, build e180ab8
```

Figure 2: docker version

```
<u>sudo</u> systemctl status docker
docker.service - Docker Application Container Engine
     Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; preset
     Active: active (running) since Fri 2025-10-17 09:53:30 IST; 42min ago
TriggeredBy: • docker.socket
      Docs: https://docs.docker.com
   Main PID: 16136 (dockerd)
     Tasks: 18
    Memory: 40.8M (peak: 46.1M)
        CPU: 639ms
     CGroup: /system.slice/docker.service
             └─16136 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/>
Oct 17 09:53:29 blaze dockerd[16136]: time="2025-10-17T09:53:29.409009312+05
Oct 17 09:53:30 blaze dockerd[16136]: time="2025-10-17T09:53:30.156185722+05
Oct 17 09:53:30 blaze dockerd[16136]: time="2025-10-17T09:53:30.179243187+05
Oct 17 09:53:30 blaze dockerd[16136]: time="2025-10-17T09:53:30.179274686+05
Oct 17 09:53:30 blaze dockerd[16136]: time="2025-10-17T09:53:30.259025059+05
Oct 17 09:53:30 blaze dockerd[16136]: time="2025-10-17T09:53:30.261619056+05
Oct 17 09:53:30 blaze dockerd[16136]: time="2025-10-17T09:53:30.261649163+05
Oct 17 09:53:30 blaze systemd[1]: Started docker.service - Docker Application
Oct 17 10:03:09 blaze dockerd[16136]: time="2025-10-17T10:03:09.092767366+05
Oct 17 10:31:46 blaze dockerd[16136]: time="2025-10-17T10:31:46.646198639+05>
lines 1-22/22 (END)
```

Figure 3: docker status

```
) docker run hello-world
Hello from Docker!
This message shows that your installation appears to be working correctly.
To generate this message, Docker took the following steps:

    The Docker client contacted the Docker daemon.

2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
    (amd64)
 3. The Docker daemon created a new container from that image which runs the
    executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent i
    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://hub.docker.com/
For more examples and ideas, visit:
https://docs.docker.com/get-started/
```

Figure 4: running helloworld