LAB1

1. adding a new user in the ubuntu system
    - sudo adduser 1rv24mc020_awais —allow-bad-names

```
awais@awais-Lenovo-ideapad:~$ sudo adduser 1rv24mc020_awais --allow-bad-names
info: Allowing use of questionable username.
info: Adding user `1rv24mc020_awais' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group `1rv24mc020_awais' (1002) ...
info: Adding new user `1rv24mc020_awais' (1002) with group `1rv24mc020_awais (1002)' ...
info: Creating home directory `/home/1rv24mc020_awais' ...
info: Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for 1rv24mc020_awais
Enter the new value, or press ENTER for the default
        Full Name []: awaisahmed
        Room Number []: 2
        Work Phone []:
        Home Phone []:
        Other []:
Is the information correct? [Y/n] Y
info: Adding new user `1rv24mc020_awais' to supplemental / extra groups `users' ...
info: Adding user `1rv24mc020_awais' to group `users' ...
awais@awais-Lenovo-ideapad:~$ sudo usermod -aG sudo 1rv24mc020_awais
```

2. switching to the new user
    - su -username

```
awais@awais-Lenovo-ideapad:~$ su - 1rv24mc020_awais
Password:
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
```

3. installing Docker

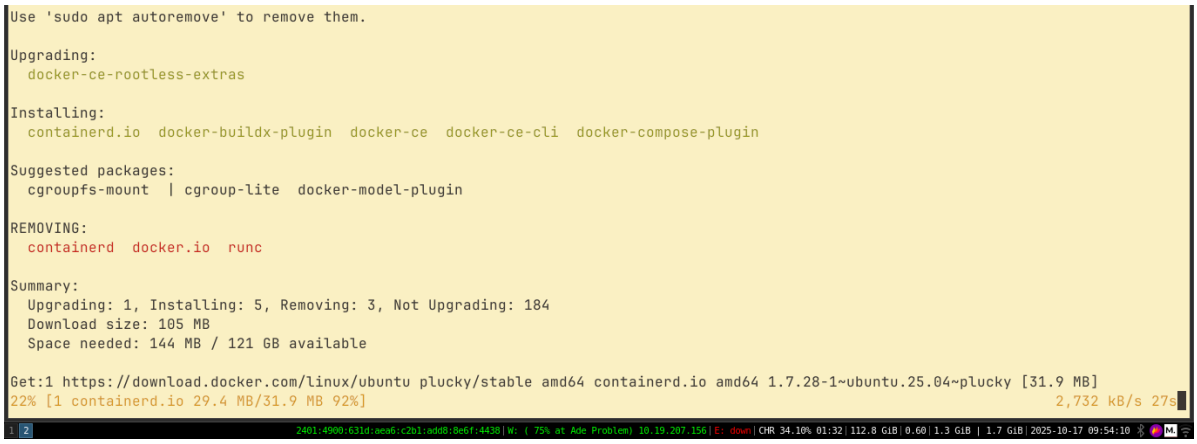
Add Docker's official GPG key:

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

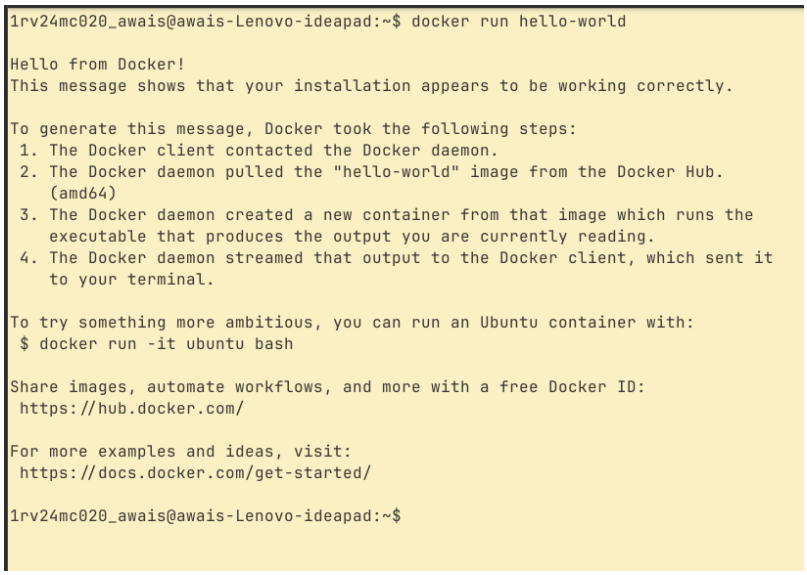
/etc/apt/keyrings/docker.asc
sudo chmod a+r /etc/apt/keyrings/docker.asc

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



5. Docker run without using sudo
    - docker run hello-world



5. Docker run with sudo command
    - sudo docker run hello-world

```
1rv24mc020_awais@awais-Lenovo-ideapad:~$ sudo 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:
 1. 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 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://hub.docker.com/

For more examples and ideas, visit:
 https://docs.docker.com/get-started/

1rv24mc020_awais@awais-Lenovo-ideapad:~$
```