Docker Practice Lab

#changing the username

Step 1: Check Current Logged-in User ------ whoami
Step 2: Attempt to Create a New User ------- sudo adduser 1rv24mc007_aditya
Step 3: Override the Default Restriction
----- sudo adduser 1rv24mc007_aditya –force-badname
Step 4: Set Password
Step 5: Enter User Information

Changing the user information for 1rv24mc007_aditya
Enter the new value, or press ENTER for the default
        Full Name []: Aditya_
        Room Number []: 1
        Work Phone []: 1
        Home Phone []: 1
        Other []: 1
Is the information correct? [Y/n] y
Step 6: Switch to the New User Account
------ su – 1rv24mc007_aditya
Step 7: Verify the Active User -------- whoami

```
aditya@Jarvis:~$ whoami
aditya
aditya@Jarvis:~$ sudo adduser 1rv24mc007_aditya
[sudo] password for aditya:
adduser: Please enter a username matching the regular expression configured
via the NAME_REGEX[_SYSTEM] configuration variable.  Use the `--force-badname'
option to relax this check or reconfigure NAME_REGEX.
aditya@Jarvis:~$ sudo adduser 1rv24mc007_aditya --force-badname
Allowing use of questionable username.
Adding user `1rv24mc007_aditya' ...
Adding new group `1rv24mc007_aditya' (1002) ...
Adding new user `1rv24mc007_aditya' (1002) with group `1rv24mc007_aditya' ...
Creating home directory `/home/1rv24mc007_aditya' ...
Copying files from `/etc/skel' ...
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
Changing the user information for 1rv24mc007_aditya
Enter the new value, or press ENTER for the default
        Full Name []: Aditya_
        Room Number []: 1
        Work Phone []: 1
        Home Phone []: 1
        Other []: 1
Is the information correct? [Y/n] y
aditya@Jarvis:~$ su - 1rv24mc007_aditya
Password:
1rv24mc007_aditya@Jarvis:~$ whoami
1rv24mc007_aditya
1rv24mc007_aditya@Jarvis:~$ []
```

Docker Installation

Update and install prerequisites sudo apt update

sudo apt install -y ca-certificates curl gnupg lsb-release

```
#Add Docker's official GPG key and repository (keyrings)
sudo mkdir -p /etc/apt/keyrings
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | \
  sudo gpg --dearmor -o /etc/apt/keyrings/docker.gpg
sudo chmod a+r /etc/apt/keyrings/docker.gpg

#Add the Docker apt repository
ARCH=$(dpkg --print-architecture)
UBU_CODENAME=$(lsb_release -cs)
echo "deb [arch=$ARCH signed-by=/etc/apt/keyrings/docker.gpg]
https://download.docker.com/linux/ubuntu $UBU_CODENAME stable" | \
  sudo tee /etc/apt/sources.list.d/docker.list > /dev/null

#Update apt and install Docker Engine, buildx, and Compose plugin
sudo apt update
sudo apt install -y docker-ce docker-ce-cli containerd.io docker-buildx-plugin
docker-compose-plugin

#Enable and start Docker
sudo systemctl enable --now docker

# Verify installation"
docker --version || true
docker compose version || true
echo "Try running hello-world:"
sudo docker run --rm hello-world || true
```