Practice Lab 1

- **Change username**

Change user name to name_usn

Changing the username can affect file permissions and configurations Example: Change username from `oldusername` to `newusername`. Commands:

1. Log in as root or another admin user (NOT the one you're renaming): sudo -i

2. Change the username usermod -l newusername oldusername

3. Update the home directory for the user: usermod -d /home/newusername -m newusername

4. Exit root: Exit

```
tantravruksha@Tantravruksha:~$ whoami
tantravruksha
tantravruksha@Tantravruksha:~$  sudo adduser bmmadhuchandra_1rv24mc021
[sudo] password for tantravruksha:
info: Adding user `bmmadhuchandra_1rv24mc021' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group `bmmadhuchandra_1rv24mc021' (1001) ...
info: Adding new user `bmmadhuchandra_1rv24mc021' (1001) with group `bmmadhuchandra_1rv
24mc021 (1001)' ...
info: Creating home directory `/home/bmmadhuchandra_1rv24mc021' ...
info: Copying files from `/etc/skel' ...
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
Sorry, passwords do not match.
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for bmmadhuchandra_1rv24mc021
Enter the new value, or press ENTER for the default
        Full Name []: bmmadhuchandra_1rv24mc021
        Room Number []: 1
        Work Phone []:
        Home Phone []:
        Other []:
Is the information correct? [Y/n] Y
info: Adding new user `bmmadhuchandra_1rv24mc021' to supplemental / extra groups `users
' ...
info: Adding user `bmmadhuchandra_1rv24mc021' to group `users' ...
tantravruksha@Tantravruksha:~$    sudo usermod -aG sudo bmmadhuchandra_1rv24mc021
tantravruksha@Tantravruksha:~$    su - bmmadhuchandra_1rv24mc021
    sudo ls /root
Password:
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

bmmadhuchandra_1rv24mc021@Tantravruksha:~$ whoami
bmmadhuchandra_1rv24mc021
bmmadhuchandra_1rv24mc021@Tantravruksha:~$ echo $SHELL
/bin/bash
bmmadhuchandra_1rv24mc021@Tantravruksha:~$ export PS1="\u:\w\$ "
```

- **Install Docker**
  Use docs.docker

1.sudo apt update

2.install docker image,set gpg keys and verify installation

```
bmmadhuchandra_1rv24mc021:~$ sudo apt-get remove docker docker-engine docker.io contain
erd runc
[sudo] password for bmmadhuchandra_1rv24mc021:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Package 'docker' is not installed, so not removed
Package 'docker-engine' is not installed, so not removed
Package 'docker.io' is not installed, so not removed
Package 'containerd' is not installed, so not removed
Package 'runc' is not installed, so not removed
0 upgraded, 0 newly installed, 0 to remove and 2 not upgraded.
bmmadhuchandra_1rv24mc021:~$ sudo apt-get update
Hit:1 https://download.docker.com/linux/ubuntu noble InRelease
Get:2 https://dl.google.com/linux/chrome/deb stable InRelease [1,825 B]
Hit:3 http://in.archive.ubuntu.com/ubuntu noble InRelease
Get:4 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:5 https://dl.google.com/linux/chrome/deb stable/main amd64 Packages [1,209 B]
Get:6 http://in.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:7 https://esm.ubuntu.com/apps/ubuntu noble-apps-security InRelease [7,613 B]
Get:8 https://esm.ubuntu.com/apps/ubuntu noble-apps-updates InRelease [7,480 B]
Get:9 https://esm.ubuntu.com/infra/ubuntu noble-infra-security InRelease [7,474 B]
Get:10 https://esm.ubuntu.com/infra/ubuntu noble-infra-updates InRelease [7,473 B]
Get:11 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [1,222 kB]
Get:12 http://in.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:13 https://esm.ubuntu.com/apps/ubuntu noble-apps-security/main amd64 Packages [246
kB]
Get:14 http://in.archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [1,498 kB]
Get:15 https://packages.microsoft.com/repos/edge stable InRelease [3,590 B]
Get:16 https://packages.microsoft.com/repos/edge stable/main amd64 Packages [24.2 kB]
Hit:17 https://ppa.launchpadcontent.net/oem-solutions-group/intel-ipu6/ubuntu noble InR
elease
Get:18 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [204 kB]
Get:19 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [21.5 kB]
Get:20 http://security.ubuntu.com/ubuntu noble-security/main amd64 c-n-f Metadata [8,96
8 B]
Get:21 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [21
2 B]
Get:22 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [885 kB
]
Get:23 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [197 kB
```

- **Verify Docker Installation**

  sudo docker run hello-world

```
bmmadhuchandra_1rv24mc021:~$ sudo docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
17eec7bbc9d7: Pull complete
Digest: sha256:6dc565aa630927052111f823c303948cf83670a3903ffa3849f1488ab517f891
Status: Downloaded newer image for hello-world:latest

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/

bmmadhuchandra_1rv24mc021:~$
```