Practice Lab-1 Ubuntu User Configuration commands

Step-1: Create a new user using the command:

sudo adduser chandu

Step-2: Add the user to the Sudo group by using either of the commands:

- sudo adduser chandu sudo
- sudo usermod -aG sudo chandu

Step-3: Create another user with sudo privileges using any of the below commands.

- sudo adduser chandu-2
- sudo adduser chandu-2 sudo

```
chandanr@ubuntu:~$ sudo adduser chandu
info: Adding user `chandu' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group `chandu' (1001) ...
info: Adding new user `chandu' (1001) with group `chandu (1001)' ...
info: Creating home directory `/home/chandu' ...
info: Copying files from `/etc/skel' ...
New password:
BAD PASSWORD: The password contains the user name in some form
Retype new password:
Sorry, passwords do not match.
New password:
BAD PASSWORD: The password contains the user name in some form
Retype new password:
Sorry, passwords do not match.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
Sorry, passwords do not match.
passwd: Have exhausted maximum number of retries for service
passwd: password unchanged
Try again? [y/N] y
New password:
BAD PASSWORD: The password contains the user name in some form
Retype new password:
Sorry, passwords do not match.
New password:
BAD PASSWORD: The password contains the user name in some form
Retype new password:
passwd: password updated successfully
Changing the user information for chandu
Enter the new value, or press ENTER for the default
        Full Name []:
        Room Number []:
        Work Phone []:
        Home Phone []:
        Other []:
Is the information correct? [Y/n] y
info: Adding new user `chandu' to supplemental / extra groups `users' ...
info: Adding user `chandu' to group `users' ...
chandanr@ubuntu:~$
```

Step-4: Verify whether the users got the sudo privileges.

• sudo -I -U chandu

Step-5: Switch between users and modify the privileges of temp-user-2 with temp-user-1

• su - temp chandu

Enter password..

• sudo deluser chandu-2 sudo

Now, again check the privileges of temp-user-2

• sudo -I -U chandu-2

Output: User chandu-2 is not allowed to run sudo on ubuntu.

Now, delete the chandu-2

sudo userdel -r chandu-2

Check whether the user still exists:

• id chandu-2

```
info: Adding new user `chandu-2' to supplemental / extra groups `users' ...
info: Adding user `chandu-2' to group `users'
chandanr@ubuntu:~$ sudo adduser chandu-2 sudo
info: Adding user `chandu-2' to group `sudo' ...
chandanr@ubuntu:~$ sudo -l -U chandu-2
Matching Defaults entries for chandu-2 on ubuntu:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/bin\:/sbin\:/snap/bi
    use_pty
User chandu-2 may run the following commands on ubuntu:
    (ALL : ALL) ALL
chandanr@ubuntu:~$ sudo -l -U chandu
Matching Defaults entries for chandu on ubuntu:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/sbin\:/sbin\:/snap/bi
    use pty
User chandu may run the following commands on ubuntu:
    (ALL : ALL) ALL
chandanr@ubuntu:~$ su chandu
Password:
su: Authentication failure
chandanr@ubuntu:~$ su chandu
Password:
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
chandu@ubuntu:/home/chandanr$ cd ...
chandu@ubuntu:/home$ cd ..
chandu@ubuntu:/$ sudo deluser chandu-2 sudo
[sudo] password for chandu:
info: Removing user `chandu-2' from group `sudo' ...
chandu@ubuntu:/$ sudo -l -U chandu-2
User chandu-2 is not allowed to run sudo on ubuntu.
chandu@ubuntu:/$ sudo userdel chandu-2
chandu@ubuntu:/$ id chandu-2
id: 'chandu-2': no such user
chandu@ubuntu:/$
```

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/

:handu@ubuntu:~\$ sudo docker run hello-world

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Docker Installation

Step-1: Update and upgrade all the packages on the machine

• sudo apt update && upgrade

Step-2: Setup docker's apt repository:

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

Step-3: Install the latest version of Docker using the below command:

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

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

• sudo systemctl status docker

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

sudo systemctl start docker

Verify that the installation is successful by running the hello-world image:

• sudo docker run hello-world