

## 1. Changing Username

> In the existing account, create a temp user- tempadmin

Sudo add tempadmin

> Give all the sudo privileges to the tempuser

Sudo usermod -aG sudo tempadmin

> Then logout from that account and login into the tempuser

> Rename the old username

Sudo usermod -l 1RV24MC014\_AKSHATHAPRASHANTH akshatha\_prashanth

> Logout from the tempuser and login to 1RV24MC014\_AKSHATHAPRASHANTH

> In the terminal, run the command

Whoami

It should show the new username: 1RV24MC014\_AKSHATHAPRASHANTH

A terminal window titled "Select 1RV24MC014\_AKSHATHAPRASHANTH@DESKTOP-KU275PP: ~" with standard window controls. The terminal shows the following commands and output:

```
1RV24MC014_AKSHATHAPRASHANTH@DESKTOP-KU275PP:~$ whoami
1RV24MC014_AKSHATHAPRASHANTH
1RV24MC014_AKSHATHAPRASHANTH@DESKTOP-KU275PP:~$
```

The prompt is green, and the output is black. A cursor is visible on the third line.

> Next, delete the tempuser

Sudo deluser tempadmin

Sudo rm -r /home/tempuser

## 2. Installing docker

> Docker was already present, so it was first uninstalled by using the commands, to stop its service

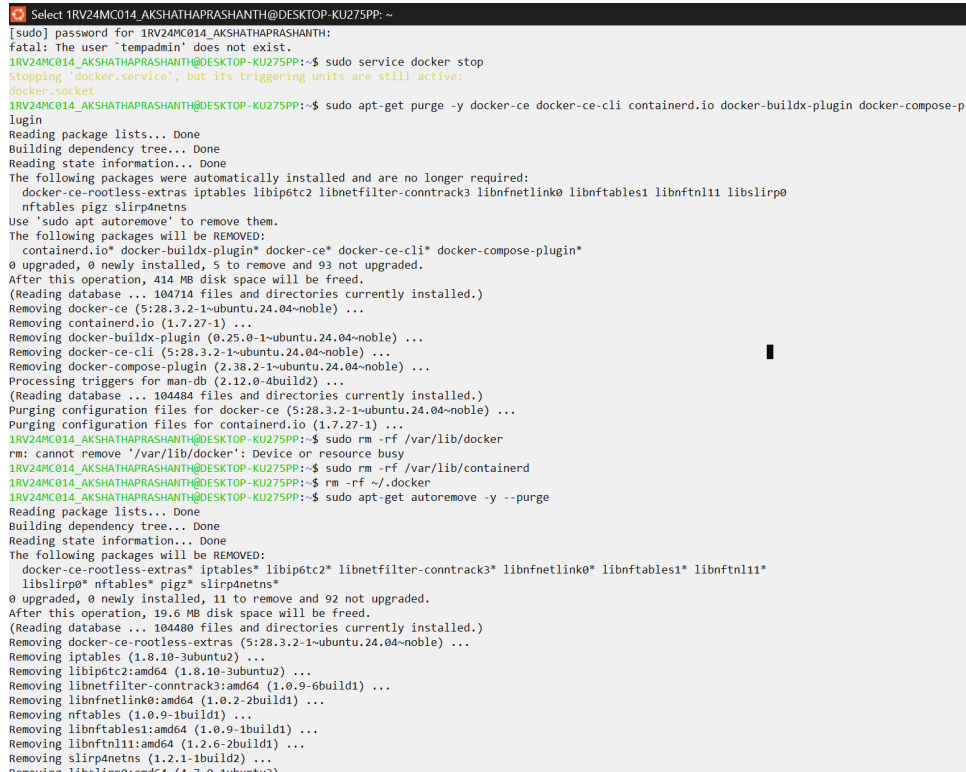
```
sudo service docker stop
```

```
sudo apt-get purge -y docker-ce docker-ce-cli containerd.io docker-buildx-plugin  
docker-compose-plugin
```

```
sudo rm -rf /var/lib/docker
```

```
sudo rm -rf /var/lib/containerd
```

```
sudo apt-get autoremove -y --purge
```



```
Select 1RV24MC014_AKSHATHAPRASHANTH@DESKTOP-KU275PP:~  
[sudo] password For 1RV24MC014_AKSHATHAPRASHANTH:  
fatal: The user 'tempadmin' does not exist.  
1RV24MC014_AKSHATHAPRASHANTH@DESKTOP-KU275PP:~$ sudo service docker stop  
Stopping 'docker.service', but its triggering units are still active:  
docker.socket  
1RV24MC014_AKSHATHAPRASHANTH@DESKTOP-KU275PP:~$ sudo apt-get purge -y docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-p  
ugin  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
The following packages were automatically installed and are no longer required:  
  docker-ce-rootless-extras iptables libip6tc2 libnetfilter-contrack3 libnftnlk0 libnftables1 libnftnl11 libslirp0  
  nftables pigz slirp4netns  
Use 'sudo apt autoremove' to remove them.  
The following packages will be REMOVED:  
  containerd.io* docker-buildx-plugin* docker-ce* docker-ce-cli* docker-compose-plugin*  
0 upgraded, 0 newly installed, 5 to remove and 93 not upgraded.  
After this operation, 414 MB disk space will be freed.  
(Reading database ... 104714 files and directories currently installed.)  
Removing docker-ce (5:28.3.2-1-ubuntu.24.04~noble) ...  
Removing containerd.io (1.7.27-1) ...  
Removing docker-buildx-plugin (0.25.0-1-ubuntu.24.04~noble) ...  
Removing docker-ce-cli (5:28.3.2-1-ubuntu.24.04~noble) ...  
Removing docker-compose-plugin (2.38.2-1-ubuntu.24.04~noble) ...  
Processing triggers for man-db (2.12.0-4build2) ...  
(Reading database ... 104484 files and directories currently installed.)  
Purging configuration files for docker-ce (5:28.3.2-1-ubuntu.24.04~noble) ...  
Purging configuration files for containerd.io (1.7.27-1) ...  
1RV24MC014_AKSHATHAPRASHANTH@DESKTOP-KU275PP:~$ sudo rm -rf /var/lib/docker  
rm: cannot remove '/var/lib/docker': Device or resource busy  
1RV24MC014_AKSHATHAPRASHANTH@DESKTOP-KU275PP:~$ sudo rm -rf /var/lib/containerd  
1RV24MC014_AKSHATHAPRASHANTH@DESKTOP-KU275PP:~$ rm -rf ~/.docker  
1RV24MC014_AKSHATHAPRASHANTH@DESKTOP-KU275PP:~$ sudo apt-get autoremove -y --purge  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
The following packages will be REMOVED:  
  docker-ce-rootless-extras* iptables* libip6tc2* libnetfilter-contrack3* libnftnlk0* libnftables1* libnftnl11*  
  libslirp0* nftables* pigz* slirp4netns*  
0 upgraded, 0 newly installed, 11 to remove and 92 not upgraded.  
After this operation, 19.6 MB disk space will be freed.  
(Reading database ... 104480 files and directories currently installed.)  
Removing docker-ce-rootless-extras (5:28.3.2-1-ubuntu.24.04~noble) ...  
Removing iptables (1.8.10-3ubuntu2) ...  
Removing libip6tc2:amd64 (1.8.10-3ubuntu2) ...  
Removing libnetfilter-contrack3:amd64 (1.0.9-6build1) ...  
Removing libnftnlk0:amd64 (1.0.2-2build1) ...  
Removing nftables (1.0.9-1build1) ...  
Removing libnftables1:amd64 (1.0.9-1build1) ...  
Removing libnftnl11:amd64 (1.2.6-2build1) ...  
Removing slirp4netns (1.2.1-1build2) ...  
Removing libslirp0:amd64 (1.2.0-3ubuntu2) ...
```

>Next, update, and set up docker's apt repository

```
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
```

```

Select 1RV24MC014_AKSHATHAPRASHANTH@DESKTOP-KU275PP: ~
1RV24MC014_AKSHATHAPRASHANTH@DESKTOP-KU275PP:~$ sudo apt-get install ca-certificates curl
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
ca-certificates is already the newest version (20240203).
curl is already the newest version (8.5.0-2ubuntu18.6).
0 upgraded, 0 newly installed, 0 to remove and 99 not upgraded.
1RV24MC014_AKSHATHAPRASHANTH@DESKTOP-KU275PP:~$ sudo install -m 0755 -d /etc/apt/keyrings
1RV24MC014_AKSHATHAPRASHANTH@DESKTOP-KU275PP:~$ sudo curl -fsSL https://download.docker.com/linux/ubuntu/gpg -o
curl: option -o: requires parameter
curl: try 'curl --help' or 'curl --manual' for more information
1RV24MC014_AKSHATHAPRASHANTH@DESKTOP-KU275PP:~$ sudo curl -fsSL https://download.docker.com/linux/ubuntu/gpg -o
curl: option -o: requires parameter
curl: try 'curl --help' or 'curl --manual' for more information
1RV24MC014_AKSHATHAPRASHANTH@DESKTOP-KU275PP:~$ sudo curl -fsSL https://download.docker.com/linux/ubuntu/gpg -o /etc/apt/keyrings/docker.asc
1RV24MC014_AKSHATHAPRASHANTH@DESKTOP-KU275PP:~$ sudo chmod a+r /etc/apt/keyrings/docker.asc
1RV24MC014_AKSHATHAPRASHANTH@DESKTOP-KU275PP:~$ sudo curl -fsSL https://download.docker.com/linux/ubuntu/gpg -o /etc/apt/keyrings/docker.asc
1RV24MC014_AKSHATHAPRASHANTH@DESKTOP-KU275PP:~$ sudo chmod a+r /etc/apt/keyrings/docker.asc
1RV24MC014_AKSHATHAPRASHANTH@DESKTOP-KU275PP:~$ echo \
>
"deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.gpg] https://download.docker.com/linux/ubuntu \
$[lib_release -cs] stable" | sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
-bash: deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.gpg] https://download.docker.com/linux/ubuntu noble stable: No such file or directory
1RV24MC014_AKSHATHAPRASHANTH@DESKTOP-KU275PP:~$ echo \
"deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.asc] https://download.docker.com/linux/ubuntu \
$[lib_release -cs] stable" | \
sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
sudo apt-get update
Hit:1 https://download.docker.com/linux/ubuntu noble InRelease
Hit:2 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:3 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:4 http://archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:5 http://archive.ubuntu.com/ubuntu noble-backports InRelease
Reading package lists... Done
1RV24MC014_AKSHATHAPRASHANTH@DESKTOP-KU275PP:~$ sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  docker-ce-rootless-extras iptables libip6tc2 libnetfilter-contract3
  libnftnl0 libnftables1 libnftnl1 libslirp0 nftables pigz slirp4nets
Suggested packages:
  cgroups-mount | cgroup-lite docker-model-plugin firewalld
The following NEW packages will be installed:
  containerd.io docker-buildx-plugin docker-ce docker-ce-cli
  docker-ce-rootless-extras docker-compose-plugin iptables libip6tc2
  libnetfilter-contract3 libnftnl0 libnftables1 libnftnl1 libslirp0 nftables
  pigz slirp4nets
0 upgraded, 16 newly installed, 0 to remove and 99 not upgraded.
Need to get 186 MB of archives.
After this operation, 441 MB of additional disk space will be used.
Do you want to continue? [Y/n] y

```

### 3. Installing docker packages

Sudo apt-get install docker-ce docker-ce-cli [containerd.io](https://containerd.io) docker-buildx-plugin docker-compose-plugin

```
1RV24MC014_AKSHATHAPRASHANTH@DESKTOP-KU275PP: ~
1RV24MC014_AKSHATHAPRASHANTH@DESKTOP-KU275PP:~$ sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  docker-ce-rootless-extras iptables libip6tc2 libnetfilter-contrack3
  libnftnlk0 libnftables1 libnftnl1 libslirp0 nftables pigz slirp4netns
Suggested packages:
  cgroupfs-mount | cgroup-lite docker-model-plugin firewallld
The following NEW packages will be installed:
  containerd.io docker-buildx-plugin docker-ce docker-ce-cli
  docker-ce-rootless-extras docker-compose-plugin iptables libip6tc2
  libnetfilter-contrack3 libnftnlk0 libnftables1 libnftnl1 libslirp0 nftables
  pigz slirp4netns
0 upgraded, 16 newly installed, 0 to remove and 99 not upgraded.
Need to get 106 MB of archives.
After this operation, 441 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 https://download.docker.com/linux/ubuntu noble/stable amd64 containerd.io amd64 1.7.28-1-ubuntu.24.04-noble [31.9 MB]
Get:2 http://archive.ubuntu.com/ubuntu noble/main amd64 libip6tc2 amd64 1.8.10-3ubuntu2 [23.7 kB]
Get:3 http://archive.ubuntu.com/ubuntu noble/main amd64 libnftnlk0 amd64 1.0.2-2build1 [14.8 kB]
Get:4 https://archive.ubuntu.com/ubuntu noble/main amd64 libnetfilter-contrack3 amd64 1.0.9-6build1 [45.2 kB]
Get:5 http://archive.ubuntu.com/ubuntu noble/main amd64 libnftnl1 amd64 1.2.6-2build1 [66.0 kB]
Get:6 http://archive.ubuntu.com/ubuntu noble/main amd64 iptables amd64 1.8.10-3ubuntu2 [381 kB]
Get:7 http://archive.ubuntu.com/ubuntu noble/universe amd64 pigz amd64 2.8-1 [65.6 kB]
Get:8 http://archive.ubuntu.com/ubuntu noble/main amd64 libnftables1 amd64 1.0.9-1build1 [358 kB]
Get:9 http://archive.ubuntu.com/ubuntu noble/main amd64 nftables amd64 1.0.9-1build1 [69.8 kB]
Get:10 http://archive.ubuntu.com/ubuntu noble/main amd64 libslirp0 amd64 4.7.0-1ubuntu3 [63.8 kB]
Get:11 https://archive.ubuntu.com/ubuntu noble/universe amd64 slirp4netns amd64 1.2.1-1build2 [34.9 kB]
Get:12 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-ce-cli amd64 5:28.5.1-1-ubuntu.24.04-noble [16.5 MB]
Get:13 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-buildx-plugin amd64 0.29.1-1-ubuntu.24.04-noble [15.9 MB]
Get:14 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-ce-rootless-extras amd64 5:28.5.1-1-ubuntu.24.04-noble [6481 kB]
Get:15 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-compose-plugin amd64 2.40.0-1-ubuntu.24.04-noble [14.2 MB]
Fetched 106 MB in 49s (2140 kB/s)
Selecting previously unselected package containerd.io.
(Reading database ... 104167 files and directories currently installed.)
Preparing to unpack .../00-containerd.io_1.7.28-1-ubuntu.24.04-noble_amd64.deb ...
Unpacking containerd.io (1.7.28-1-ubuntu.24.04-noble) ...
Selecting previously unselected package docker-ce-cli.
Preparing to unpack .../01-docker-ce-cli_5:28.5.1-1-ubuntu.24.04-noble_amd64.deb ...
Unpacking docker-ce-cli (5:28.5.1-1-ubuntu.24.04-noble) ...
Selecting previously unselected package libip6tc2:amd64.
Preparing to unpack .../02-libip6tc2_1.8.10-3ubuntu2_amd64.deb ...
Unpacking libip6tc2:amd64 (1.8.10-3ubuntu2) ...
Selecting previously unselected package libnftnlk0:amd64.
Preparing to unpack .../03-libnftnlk0_1.0.2-2build1_amd64.deb ...
Unpacking libnftnlk0:amd64 (1.0.2-2build1) ...
Selecting previously unselected package libnetfilter-contrack3:amd64.
Preparing to unpack .../04-libnetfilter-contrack3_1.0.9-6build1_amd64.deb ...
Unpacking libnetfilter-contrack3:amd64 (1.0.9-6build1) ...
Selecting previously unselected package libnftnl1:amd64.
Preparing to unpack .../05-libnftnl1_1.2.6-2build1_amd64.deb ...
Unpacking libnftnl1:amd64 (1.2.6-2build1) ...
Selecting previously unselected package iptables.
Preparing to unpack .../06-iptables_1.8.10-3ubuntu2_amd64.deb ...
Unpacking iptables (1.8.10-3ubuntu2) ...
Selecting previously unselected package docker-ce.
Preparing to unpack .../07-docker-ce_5:28.5.1-1-ubuntu.24.04-noble_amd64.deb ...
Unpacking docker-ce (5:28.5.1-1-ubuntu.24.04-noble) ...
Selecting previously unselected package pigz.
Preparing to unpack .../08-pigz_2.8-1_amd64.deb ...
Unpacking pigz (2.8-1) ...
```

## 4 Verify the installation by running the hello-world image

Sudo systemctl start docker

Sudo docker run hello-world



Select 1RV24MC014\_AKSHATHAPRASHANTH@DESKTOP-KU275PP: ~

Processing triggers for libc-bin (2.39-0ubuntu8.5) ...

```
1RV24MC014_AKSHATHAPRASHANTH@DESKTOP-KU275PP:~$ sudo systemctl start docker
```

```
1RV24MC014_AKSHATHAPRASHANTH@DESKTOP-KU275PP:~$ sudo docker runj hello-world
docker: unknown command: docker runj
```

Run 'docker --help' for more information

```
1RV24MC014_AKSHATHAPRASHANTH@DESKTOP-KU275PP:~$ 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/>

```
1RV24MC014_AKSHATHAPRASHANTH@DESKTOP-KU275PP:~$
```