

Username Change & Docker Installation

Step 1: Check Current Username

\$whoami

sandarsh

Step 2: Create a Temporary Admin User

\$sudo adduser admin temp
123456

set a password and press Enter for other fields.

Step 3: Give Sudo Privileges to the New User

\$sudo usermod -aG sudo admin temp

Step 4: Switch to the New Admin User

\$su - admin temp or through gui

Check your current user:

\$whoami

admin_temp

Step 5: Rename the Original User

`sandarsh` → `Sandarsh_J_N_1RV24MC093`

\$sudo usermod -l Sandarsh J N 1RV24MC093 sandarsh

Step 6: Rename the Home Directory

\$sudo mv /home/sandarsh /home/Sandarsh_J_N_1RV24MC093

\$sudo usermod -d /home/Sandarsh J N 1RV24MC093 -m
Sandarsh J N 1RV24MC093

Step 7: Fix Ownership Permissions

\$sudo chown -R Sandarsh J N 1RV24MC093:Sandarsh J N 1RV24MC093
/home/Sandarsh J N 1RV24MC093

Step 8: Test the Username Change

Log out from admin_temp then log in again as:

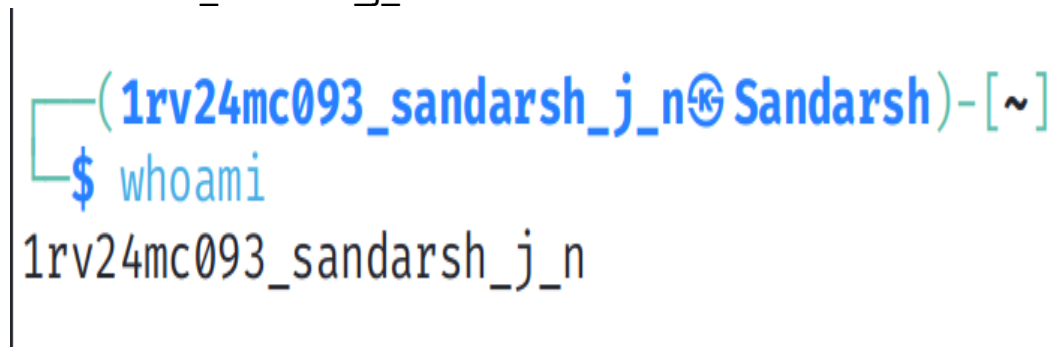
Username: 1rv24mc093_sandarsh_j_n

Password: ****

Then open a terminal:

\$whoami

1rv24mc093_sandarsh_j_n

A terminal window screenshot showing the command 'whoami' being executed. The prompt is '(1rv24mc093_sandarsh_j_n@Sandarsh)-[~]'. The output of the command is '1rv24mc093_sandarsh_j_n'.

```
(1rv24mc093_sandarsh_j_n@Sandarsh)-[~]  
$ whoami  
1rv24mc093_sandarsh_j_n
```

Docker Installation and Testing on Kali Linux

Step 1: Update Package List

\$sudo apt update

```
1rv24mc093_sandarsh_j_n@Sandarsh: ~  
File Actions Edit View Help  
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/  
  
(1rv24mc093_sandarsh_j_n@Sandarsh)-[~]  
$ whoami  
1rv24mc093_sandarsh_j_n  
  
(1rv24mc093_sandarsh_j_n@Sandarsh)-[~]  
$ sudo apt update  
Ign:1 https://download.docker.com/linux/debian bookworm InRelease  
Get:2 http://http.kali.org/kali kali-rolling InRelease [132 B]  
Err:2 http://http.kali.org/kali kali-rolling InRelease  
  Clearsigned file isn't valid, got 'NOSPLIT' (does the network require authentication?)  
Ign:3 https://dl.google.com/linux/chrome/deb stable InRelease  
Ign:4 https://packages.microsoft.com/repos/code stable InRelease  
Ign:5 https://brave-browser-apt-release.s3.brave.com stable InRelease  
Ign:1 https://download.docker.com/linux/debian bookworm InRelease  
Ign:3 https://dl.google.com/linux/chrome/deb stable InRelease  
Ign:4 https://packages.microsoft.com/repos/code stable InRelease  
Ign:5 https://brave-browser-apt-release.s3.brave.com stable InRelease  
Ign:1 https://download.docker.com/linux/debian bookworm InRelease  
Ign:3 https://dl.google.com/linux/chrome/deb stable InRelease  
Ign:4 https://packages.microsoft.com/repos/code stable InRelease  
Ign:5 https://brave-browser-apt-release.s3.brave.com stable InRelease  
Err:1 https://download.docker.com/linux/debian bookworm InRelease  
  SSL connection failed: error:0A000086:SSL routines::certificate verify failed / Success [IP: 18.161.246.109 443]  
Err:3 https://dl.google.com/linux/chrome/deb stable InRelease  
  SSL connection failed: error:0A000086:SSL routines::certificate verify failed / Success [IP: 172.217.24.142 443]  
Err:4 https://packages.microsoft.com/repos/code stable InRelease  
  SSL connection failed: error:0A000086:SSL routines::certificate verify failed / Success [IP: 13.107.246.58 443]  
Err:5 https://brave-browser-apt-release.s3.brave.com stable InRelease  
  SSL connection failed: error:0A000086:SSL routines::certificate verify failed / Success [IP: 18.161.229.2 443]  
Error: Failed to fetch http://http.kali.org/kali/dists/kali-rolling/InRelease Clearsigned file isn't valid, got 'NOSPLIT' (does the network require authentication?)  
Error: The repository 'http://http.kali.org/kali kali-rolling InRelease' is no longer signed.  
Notice: Updating from such a repository can't be done securely, and is therefore disabled by default.  
Notice: See apt-secure(8) manpage for repository creation and user configuration details.  
  
(1rv24mc093_sandarsh_j_n@Sandarsh)-[~]  
$
```

Step 2: Install Required Dependencies

\$sudo apt-get install ca-certificates curl

```
(1rv24mc093_sandarsh_j_n@Sandarsh)-[~]  
$ 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 (20250419).  
curl is already the newest version (8.15.0-1).  
The following packages were automatically installed and are no longer required:  
  docker-ce-rootless-extras libslirp0 pigz slirp4netns  
Use 'sudo apt autoremove' to remove them.  
0 upgraded, 0 newly installed, 0 to remove and 1409 not upgraded.
```

Step 3: Add Docker's Official GPG Key

\$sudo install -m 0755 -d /etc/apt/keyrings

\$sudo curl -fsSL https://download.docker.com/linux/debian/gpg -o /etc/apt/keyrings/docker.asc

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

```
(1rv24mc093_sandarsh_j_n@Sandarsh)-[~]
$ sudo install -m 0755 -d /etc/apt/keyrings
sudo curl -fsSL https://download.docker.com/linux/debian/gpg -o /etc/apt/keyrings/docker.asc
sudo chmod a+r /etc/apt/keyrings/docker.asc
```

Step 4: Add the Docker Repository

```
echo \
"deb [arch=$(dpkg --print-architecture) signed-by=/usr/share/keyrings/docker-
archive-keyring.gpg] \
https://download.docker.com/linux/debian \
$(lsb_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
```

```
(1rv24mc093_sandarsh_j_n@Sandarsh)-[~]
$ echo \
"deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.asc] https://download.docker.com/linux/debian \
bookworm stable" | \
sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
```

Step 6: Install Docker Engine

\$sudo apt install docker-ce docker-ce-cli containerd.io -y

```
1rv24mc093_sandarsh_j_n@Sandarsh: ~  
$ 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  
Suggested packages:  
  cgroupfs-mount | cgroup-lite docker-model-plugin  
The following NEW packages will be installed:  
  containerd.io docker-buildx-plugin docker-ce docker-ce-cli docker-compose-plugin  
0 upgraded, 5 newly installed, 0 to remove and 1409 not upgraded.  
Need to get 0 B/98.2 MB of archives.  
After this operation, 421 MB of additional disk space will be used.  
Selecting previously unselected package containerd.io.  
(Reading database ... 583891 files and directories currently installed.)  
Preparing to unpack .../containerd.io_1.7.28-1-debian.12-bookworm_amd64.deb ...  
Unpacking containerd.io (1.7.28-1-debian.12-bookworm) ...  
Selecting previously unselected package docker-ce-cli.  
Preparing to unpack .../docker-ce-cli_5%3a28.5.1-1-debian.12-bookworm_amd64.deb ...  
Unpacking docker-ce-cli (5:28.5.1-1-debian.12-bookworm) ...  
Selecting previously unselected package docker-ce.  
Preparing to unpack .../docker-ce_5%3a28.5.1-1-debian.12-bookworm_amd64.deb ...  
Unpacking docker-ce (5:28.5.1-1-debian.12-bookworm) ...  
Selecting previously unselected package docker-buildx-plugin.  
Preparing to unpack .../docker-buildx-plugin_0.29.1-1-debian.12-bookworm_amd64.deb ...  
Unpacking docker-buildx-plugin (0.29.1-1-debian.12-bookworm) ...  
Selecting previously unselected package docker-compose-plugin.  
Preparing to unpack .../docker-compose-plugin_2.40.0-1-debian.12-bookworm_amd64.deb ...  
Unpacking docker-compose-plugin (2.40.0-1-debian.12-bookworm) ...  
Setting up docker-buildx-plugin (0.29.1-1-debian.12-bookworm) ...  
Setting up containerd.io (1.7.28-1-debian.12-bookworm) ...  
containerd.service is a disabled or a static unit, not starting it.  
Setting up docker-compose-plugin (2.40.0-1-debian.12-bookworm) ...  
Setting up docker-ce-cli (5:28.5.1-1-debian.12-bookworm) ...  
Setting up docker-ce (5:28.5.1-1-debian.12-bookworm) ...  
update-rc.d: We have no instructions for the docker init script.  
update-rc.d: It looks like a non-network service, we enable it.  
Created symlink '/etc/systemd/system/multi-user.target.wants/docker.service' -> '/usr/lib/systemd/system/docker.service'.  
Created symlink '/etc/systemd/system/sockets.target.wants/docker.socket' -> '/usr/lib/systemd/system/docker.socket'.  
Processing triggers for man-db (2.13.1-1) ...  
Processing triggers for kali-menu (2025.3.0) ...  
1rv24mc093_sandarsh_j_n@Sandarsh: ~  
$ docker --version
```

Step 7: Enable and Start Docker Service

`$sudo systemctl enable docker`

`$sudo systemctl start docker`

Check status:

`$sudo systemctl status docker`

```
1rv24mc093_sandarsh_j_n@Sandarsh: ~  
$ docker --version  
Docker version 28.5.1, build e180ab8  
  
1rv24mc093_sandarsh_j_n@Sandarsh: ~  
$ sudo systemctl status docker  
● docker.service - Docker Application Container Engine  
   Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; preset: enabled)  
   Active: active (running) since Wed 2025-10-15 15:54:03 IST; 4min 17s ago  
 Invocation: 6dbf82ef963f4281983432ca6c02901e  
 TriggeredBy: ● docker.socket  
    Docs: https://docs.docker.com  
 Main PID: 60404 (dockerd)  
   Tasks: 17  
  Memory: 27.6M (peak: 32.4M)  
    CPU: 475ms  
   CGroup: /system.slice/docker.service  
           └─60404 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock  
  
Oct 15 15:54:01 Sandarsh dockerd[60404]: time="2025-10-15T15:54:01.995518213+05:30" level=info msg="CDI directory does not exist, skipping: failed to monitor for changes: no  
Oct 15 15:54:02 Sandarsh dockerd[60404]: time="2025-10-15T15:54:02.001851088+05:30" level=info msg="Creating a containerd client" address=/run/containerd/containerd.sock ti  
Oct 15 15:54:02 Sandarsh dockerd[60404]: time="2025-10-15T15:54:02.023501025+05:30" level=info msg="Loading containers: start."  
Oct 15 15:54:03 Sandarsh dockerd[60404]: time="2025-10-15T15:54:03.220329194+05:30" level=info msg="Loading containers: done."  
Oct 15 15:54:03 Sandarsh dockerd[60404]: time="2025-10-15T15:54:03.237079379+05:30" level=info msg="Docker daemon" commit=f8215cc containerd-snapshotter=false storage-drive  
Oct 15 15:54:03 Sandarsh dockerd[60404]: time="2025-10-15T15:54:03.237225322+05:30" level=info msg="Initializing buildkit"  
Oct 15 15:54:03 Sandarsh dockerd[60404]: time="2025-10-15T15:54:03.282477585+05:30" level=info msg="Completed buildkit initialization"  
Oct 15 15:54:03 Sandarsh dockerd[60404]: time="2025-10-15T15:54:03.291084985+05:30" level=info msg="Daemon has completed initialization"  
Oct 15 15:54:03 Sandarsh dockerd[60404]: time="2025-10-15T15:54:03.291165337+05:30" level=info msg="API listen on /run/docker.sock"  
Oct 15 15:54:03 Sandarsh systemd[1]: Started docker.service - Docker Application Container Engine.  
  
1rv24mc093_sandarsh_j_n@Sandarsh: ~  
$ sudo usermod -aG docker $USER  
  
1rv24mc093_sandarsh_j_n@Sandarsh: ~  
$ awk -F: '($3 ≥ 1000) { $3 = 65534 } { print $1 }' /etc/passwd  
newuser  
1rv24mc093_sandarsh_j_n  
  
1rv24mc093_sandarsh_j_n@Sandarsh: ~  
$ sudo userdel -r newuser  
userdel: user newuser is currently used by process 35376
```

Step 8: Verify Docker Installation

\$docker --version

```
(1rv24mc093_sandarsh_j_n@Sandarsh)-[~]  
$ docker --version  
Docker version 28.5.1, build e180ab8
```

Step 9: Run a Test Docker Container

\$sudo docker run hello-world

(1rv24mc093_sandarsh_j_n@Sandarsh)-[~]

\$ 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/>