Docker Installation

Step 1 - Create a new user with username *1RV24MC038_hrshreeraksha*.

- Use adduser command to set up a new user
- Use *usermod* command to add the user to the *sudo* group
- Use su command to use the terminal as the root user

```
-(09:20:56)—> <u>sudo</u> adduser 1RV24MC038_hrshreeraksha
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.
                                                                                                                      (raksha@asus:pts/3)
1 ← —(Fri,Oct17)
(09:21:02)--> <u>sudo</u> adduser 1RV24MC038_hrshreeraksha --force-badname Allowing use of questionable username.
Adding user `1RV24MC038_hrshreeraksha' ...
Adding new group `1RV24MC038_hrshreeraksha' (1002) ...
Adding new user `1RV24MC038_hrshreeraksha' (1002) with group `1RV24MC038_hrshreeraksha' ...
Creating home directory `/home/1RV24MC038_hrshreeraksha' ...
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 1RV24MC038_hrshreeraksha
Enter the new value, or press ENTER for the default Full Name []: 1RV24MC038_hrshreeraksha Room Number []:
Work Phone []:
Home Phone []:
         Other []:
Is the information correct? [Y/n] y
  -(09:21:37)-> usermod -aG sudo 1RV24MC038_hrshreeraksha
usermod: Permission denied.
usermod: cannot lock /etc/passwd; try again later.
                                                                                                                      (raksha@asus:pts/3)
1 ← —(Fri,0ct17)
  -(09:22:14)-> sudo usermod -aG sudo 1RV24MC038_hrshreeraksha
                                                                                                                      raksha@asus:pts/3)—
—(Fri,Oct17)—
  -(09:22:31)-> su - 1RV24MC038_hrshreeraksha
Password:
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
 LRV24MC038_hrshreeraksha@asus:~$
```

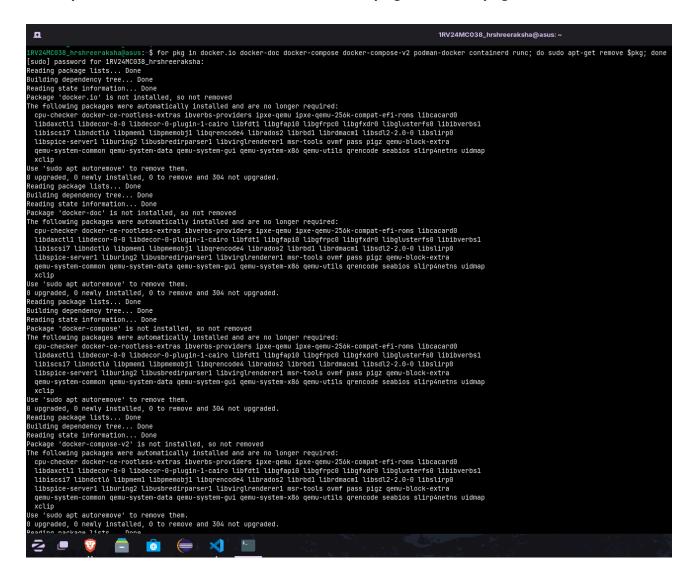
Step 2 - Check current user

Use the whoami command to check if the current user is 1RV24MC038 hrshreeraksha

```
1RV24MC038_hrshreeraksha@asus:~$ whoami
1RV24MC038_hrshreeraksha
1RV24MC038_hrshreeraksha@asus:~$
```

Step 3 - Uninstall any pre-existing versions of Docker

- Run for pkg in docker.io docker-doc docker-compose docker-compose-v2 podman-docker containerd runc; do sudo apt-get remove \$pkg; done



Step 4 - Update and set up docker repository

Run the following commands

- 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

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1RV24MC038_hrshreeraksha@asus:~$ sudo apt-get update
Hit:1 https://download.docker.com/linux/ubuntu jammy InRelease
Get:2 https://dl.google.com/linux/chrome/deb stable InRelease [1,825 B]
 Hit:3 https://packages.microsoft.com/repos/code stable InRelease
Get:4 http://security.ubuntu.com/ubuntu jammy-security InRelease [129 kB]
Hit:5 https://brave-browser-apt-release.s3.brave.com stable InRelease
  Get:6 https://dl.google.com/linux/chrome/deb stable/main amd64 Packages [1,209 B]
  Get:7 https://packages.mozilla.org/apt mozilla InRelease [1,524 B]
Hit:8 http://in.archive.ubuntu.com/ubuntu jammy InRelease
Get:9 https://packages.mozilla.org/apt mozilla/main all Packages [5,310 kB]
Get:10 http://in.archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
Get:10 http://in.archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
Get:11 http://security.ubuntu.com/ubuntu jammy-security/main amdó4 DEP-11 Metadata [54.5 kB]
H1t:12 https://packages.zorinos.com/stable jammy InRelease
Get:13 http://security.ubuntu.com/ubuntu jammy-security/main amdó4 c-n-f Metadata [13.9 kB]
H1t:14 https://packages.zorinos.com/patches jammy InRelease
Get:15 http://security.ubuntu.com/ubuntu jammy-security/restricted amdó4 DEP-11 Metadata [208 B]
Get:16 http://security.ubuntu.com/ubuntu jammy-security/universe amdó4 DEP-11 Metadata [126 kB]
H1t:17 https://packages.zorinos.com/apps jammy InRelease
Get:18 http://security.ubuntu.com/ubuntu jammy-security/universe amdó4 c-n-f Metadata [22.2 kB]
Get:10 http://security.ubuntu.com/ubuntu jammy-security/universe amdó4 C-n-f Metadata [22.8 kB]
Get:10 http://security.ubuntu.com/ubuntu jammy-security/universe amdó4 DEP-11 Metadata [208 R]
    et:19 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 DEP-11 Metadata [208 B]
Hit:20 https://packages.zorinos.com/drivers jammy-scentry/metrorse amada bt-1
Hit:21 https://ppa.launchpadcontent.net/zorinos/apps/ubuntu jammy InRelease
Get:22 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease [127 kB]
Hit:23 https://ppa.launchpadcontent.net/zorinos/drivers/ubuntu jammy InRelease
 Hit:24 https://ppa.launchpadcontent.net/zorinos/patches/ubuntu jammy InRelease
 Hit:25 https://ppa.launchpadeontent.net/zorinos/patches/duonto_jammy inketease
Hit:25 https://ppa.launchpadeontent.net/zorinos/stable/ubuntu jammy inketease
Get:26 https://packages.mozilla.org/apt mozilla/main amd64 Packages [103 kB]
   et:27 http://in.archive.ubuntu.com/ubuntu jammy-updates/main i386 Packages [899 kB]
  set:28 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amdó4 Packages [2,992 kB]
Set:29 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amdó4 DEP-11 Metadata [112 kB]
  Set:30 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 c-n-f Metadata [19.0 kB]
   et:31 http://in.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [4,671 kB]
  set:32 http://in.archive.ubuntu.com/ubuntu jammy-updates/restricted i386 Packages [49.2 kB]
set:33 http://in.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [862 kB]
set:34 http://in.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 DEP-11 Metadata [212 B]
 Get:34 http://in.archive.ubuntu.com/ubuntu jammy-updates/restricted amdó4 DEP-11 Metadata [212 B] Get:35 http://in.archive.ubuntu.com/ubuntu jammy-updates/restricted amdó4 c-n-f Metadata [640 B] Get:36 http://in.archive.ubuntu.com/ubuntu jammy-updates/universe amdó4 Packages [1,235 kB] Get:37 http://in.archive.ubuntu.com/ubuntu jammy-updates/universe i386 Packages [786 kB] Get:38 http://in.archive.ubuntu.com/ubuntu jammy-updates/universe amdó4 DEP-11 Metadata [359 kB] Get:39 http://in.archive.ubuntu.com/ubuntu jammy-updates/universe amdó4 c-n-f Metadata [29.7 kB] Get:40 http://in.archive.ubuntu.com/ubuntu jammy-updates/multiverse amdó4 Packages [57.6 kB] Get:41 http://in.archive.ubuntu.com/ubuntu jammy-updates/multiverse amdó4 DEP-11 Metadata [940 B] Get:42 http://in.archive.ubuntu.com/ubuntu jammy-updates/multiverse amdó4 Cen-f Metadata [600 B] Get:43 http://in.archive.ubuntu.com/ubuntu jammy-updates/multiverse amdó4 DEP-11 Metadata [860 B] Get:43 http://in.archive.ubuntu.com/ubuntu.jammy-updates/multiverse amdó4 DEP-11 Metadata [860 B] Get:43 http://in.archive.ubuntu.com/ubuntu.com/ubuntu.gen/ubuntu.com/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubuntu.gen/ubun
   et:43 http://in.archive.ubuntu.com/ubuntu jammy-backports/main amd64 DEP-11 Metadata [7,168 B]
Get:44 http://in.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 DEP-11 Metadata [212 B]
Get:45 http://in.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 DEP-11 Metadata [9,712 B]
Get:46 http://in.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 DEP-11 Metadata [212 B]
   etched 18.1 MB in 17s (1,044 kB/s)
   eading package lists... Done
                                           hreeraksha@asus:~$ sudo apt-get install ca-certificates curl
  Reading package lists... Done
  Building dependency tree... Done
  Reading state information... Done
  a-certificates is already the newest version (20240203~22.04.1).
  The following packages were automatically installed and are no longer required:
    2
                                                                                                                                          X
                                                                                           -
```

```
IRV24MCO38_hrshreeraksha@asus:~

IRV24MCO38_hrshreeraksha@asus:-$ sudo instalt -m 0755 -d /etc/apt/keyrings
IRV24MCO38_hrshreeraksha@asus:-$ sudo curl -fssl https://oumload.docker.com/linux/ubuntu/gpg -o /etc/apt/keyrings/docker.asc
IRV24MCO38_hrshreeraksha@asus:-$ sudo curl -fssl https://download.docker.com/linux/ubuntu/gpg -o /etc/apt/keyrings/docker.asc
IRV24MCO38_hrshreeraksha@asus:-$ sudo curl -fssl https://download.docker.com/linux/ubuntu \
$(.) *etc/as-release && echo *$*(ubuNTU_CODENAME:-$VERSION_CODENAME}**) *stable* | \
$sudo tee *tet/apt/sources.list.d/docker.list > /adee.list > /adee.
```

Step 5 - Install the latest version of docker

- Run the following command
- sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin

```
INVARCOSS_Invarceraksha@asus: $ 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
Building dependency tree... Done
Rufcling packages were automatically installed and are no longer required:
Cpu-checker durens-provides just-quenu just-quenu-250k-compat-efi-rums liboscard0 libdaxctll libdacor-0-0 libdecor-0-plugin-1-cairo librdil libgforpoi
Cpu-checker durens-provide activates just-quenu just-quenu-250k-compat-efi-rums libracir-1-o-0 librdil libdacor-0-0 librdil librdir-1-o-0 librdir-1-o-0
```

Step 6 - Verify installation

```
.RV24MC038_hrshreeraksha@asus:~$ sudo docker run hello-world
[sudo] password for 1RV24MC038_hrshreeraksha:
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/
```