

Lab 1 – changing username and docker engine installation

Add a tempuser

```
#sudo adduser tmpusr
```

Add user to sudo group

```
#sudo usermod -aG sudo username
```



```
anantha@anantha-ASUS-TUF-Gaming-A15-FA506IHRB-FA506IHRZ:~$ whoami
anantha
anantha@anantha-ASUS-TUF-Gaming-A15-FA506IHRB-FA506IHRZ:~$ sudo adduser "tmpusr"
info: Adding user `tmpusr' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group `tmpusr' (1005) ...
info: Adding new user `tmpusr' (1005) with group `tmpusr (1005)' ...
info: Creating home directory `/home/tmpusr' ...
info: 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 tmpusr
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 `tmpusr' to supplemental / extra groups `users' ...
info: Adding user `tmpusr' to group `users' ...
anantha@anantha-ASUS-TUF-Gaming-A15-FA506IHRB-FA506IHRZ:~$ sudo usermod -aG sudo tmpusr
anantha@anantha-ASUS-TUF-Gaming-A15-FA506IHRB-FA506IHRZ:~$ groups tmpusr
tmpusr : tmpusr sudo users
anantha@anantha-ASUS-TUF-Gaming-A15-FA506IHRB-FA506IHRZ:~$
```

check whether user added to groups

```
#groups username
```

Logout from the current user then login as a tmpusr

open terminal

```
sudo usermod -l new_username old_username
```

Logout and login as same user

Check whoami command to get username

```
1rv24mc016_anantha_m@anantha-ASUS-TUF-Gaming-A15-FAS06IHRB-FAS06IHRZ:~$ whoami
1rv24mc016_anantha_m
1rv24mc016_anantha_m@anantha-ASUS-TUF-Gaming-A15-FAS06IHRB-FAS06IHRZ:~$ sudo apt-get update
[sudo] password for 1rv24mc016_anantha_m:
Hit:1 https://download.docker.com/linux/ubuntu noble InRelease
Get:2 https://packages.microsoft.com/repos/code stable InRelease [3,590 B]
Get:3 https://dl.google.com/linux/chrome/deb stable InRelease [1,825 B]
Get:4 https://packages.microsoft.com/repos/code stable/main arm64 Packages [20.0 kB]
Get:5 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:6 https://packages.microsoft.com/repos/code stable/main amd64 Packages [19.9 kB]
Get:7 https://packages.microsoft.com/repos/code stable/main armhf Packages [20.0 kB]
Get:8 https://dl.google.com/linux/chrome/deb stable/main amd64 Packages [1,209 B]
Hit:9 http://in.archive.ubuntu.com/ubuntu noble InRelease
Get:10 http://in.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:11 http://security.ubuntu.com/ubuntu noble-security/main i386 Packages [339 kB]
Get:12 http://in.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:13 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [1,222 kB]
Get:14 http://in.archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [1,498 kB]
Get:15 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [284 kB]
Get:16 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [21.5 kB]
Get:17 http://security.ubuntu.com/ubuntu noble-security/main amd64 c-n-f Metadata [8,968 B]
Get:18 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 B]
Get:19 http://security.ubuntu.com/ubuntu noble-security/universe i386 Packages [548 kB]
Get:20 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [885 kB]
Get:21 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [197 kB]
Get:22 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.2 kB]
Get:23 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [18.2 kB]
Get:24 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [208 B]
Get:25 http://in.archive.ubuntu.com/ubuntu noble-updates/main i386 Packages [537 kB]
Get:26 http://in.archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [175 kB]
Get:27 http://in.archive.ubuntu.com/ubuntu noble-updates/main amd64 c-n-f Metadata [15.3 kB]
Get:28 http://in.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [2,089 kB]
Get:29 http://in.archive.ubuntu.com/ubuntu noble-updates/restricted i386 Packages [24.2 kB]
Get:30 http://in.archive.ubuntu.com/ubuntu noble-updates/restricted Translation-en [470 kB]
Get:31 http://in.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [212 B]
Get:32 http://in.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 c-n-f Metadata [516 B]
Get:33 http://in.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [1,489 kB]
Get:34 http://in.archive.ubuntu.com/ubuntu noble-updates/universe i386 Packages [985 kB]
Get:35 http://in.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [377 kB]
Get:36 http://in.archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [31.2 kB]
Get:37 http://in.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [30.3 kB]
Get:38 http://in.archive.ubuntu.com/ubuntu noble-updates/multiverse Translation-en [5,564 B]
Get:39 http://in.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [940 B]
Get:40 http://in.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 c-n-f Metadata [484 B]
Get:41 http://in.archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [7,156 B]
```

Docker installation steps

Setup apt repository

Before you install Docker Engine for the first time on a new host machine, you need to set up the Docker apt repository. Afterward, you can install and update Docker from the 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
```



```
1rv24mc016_anantha_m@anantha-ASUS-TUF-Gaming-A15-FA506IHRB-FA506IHRZ:~$ 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 Fri 2025-10-17 09:34:31 IST; 18s ago
     TriggeredBy: ● docker.socket
        Docs: https://docs.docker.com
       Main PID: 8246 (dockerd)
          Tasks: 17
         Memory: 22.4M (peak: 24.3M)
            CPU: 427ms
       CGroup: /system.slice/docker.service
               └─8246 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

Oct 17 09:34:30 anantha-ASUS-TUF-Gaming-A15-FA506IHRB-FA506IHRZ dockerd[8246]: time="2025-10-17T09:34:30.747189794+05:30" level=info msg="detected 127.0.0.53 nameserver, assuming syst
Oct 17 09:34:30 anantha-ASUS-TUF-Gaming-A15-FA506IHRB-FA506IHRZ dockerd[8246]: time="2025-10-17T09:34:30.757944792+05:30" level=info msg="Creating a containerd client" address=/run/co
Oct 17 09:34:30 anantha-ASUS-TUF-Gaming-A15-FA506IHRB-FA506IHRZ dockerd[8246]: time="2025-10-17T09:34:30.831033969+05:30" level=info msg="Loading containers: start."
Oct 17 09:34:31 anantha-ASUS-TUF-Gaming-A15-FA506IHRB-FA506IHRZ dockerd[8246]: time="2025-10-17T09:34:31.706237103+05:30" level=info msg="Loading containers: done."
Oct 17 09:34:31 anantha-ASUS-TUF-Gaming-A15-FA506IHRB-FA506IHRZ dockerd[8246]: time="2025-10-17T09:34:31.718573866+05:30" level=info msg="Docker daemon" commit=f8215cc containerd-snap
Oct 17 09:34:31 anantha-ASUS-TUF-Gaming-A15-FA506IHRB-FA506IHRZ dockerd[8246]: time="2025-10-17T09:34:31.718685542+05:30" level=info msg="Initializing buildkit"
Oct 17 09:34:31 anantha-ASUS-TUF-Gaming-A15-FA506IHRB-FA506IHRZ dockerd[8246]: time="2025-10-17T09:34:31.750698969+05:30" level=info msg="Completed buildkit initialization"
Oct 17 09:34:31 anantha-ASUS-TUF-Gaming-A15-FA506IHRB-FA506IHRZ dockerd[8246]: time="2025-10-17T09:34:31.755621452+05:30" level=info msg="Daemon has completed initialization"
Oct 17 09:34:31 anantha-ASUS-TUF-Gaming-A15-FA506IHRB-FA506IHRZ dockerd[8246]: time="2025-10-17T09:34:31.755726144+05:30" level=info msg="API listen on /run/docker.sock"
Oct 17 09:34:31 anantha-ASUS-TUF-Gaming-A15-FA506IHRB-FA506IHRZ systemd[1]: Started docker.service - Docker Application Container Engine.

1rv24mc016_anantha_m@anantha-ASUS-TUF-Gaming-A15-FA506IHRB-FA506IHRZ:~$ docker --version
Docker version 28.5.1, build e180ab8
1rv24mc016_anantha_m@anantha-ASUS-TUF-Gaming-A15-FA506IHRB-FA506IHRZ:~$
```