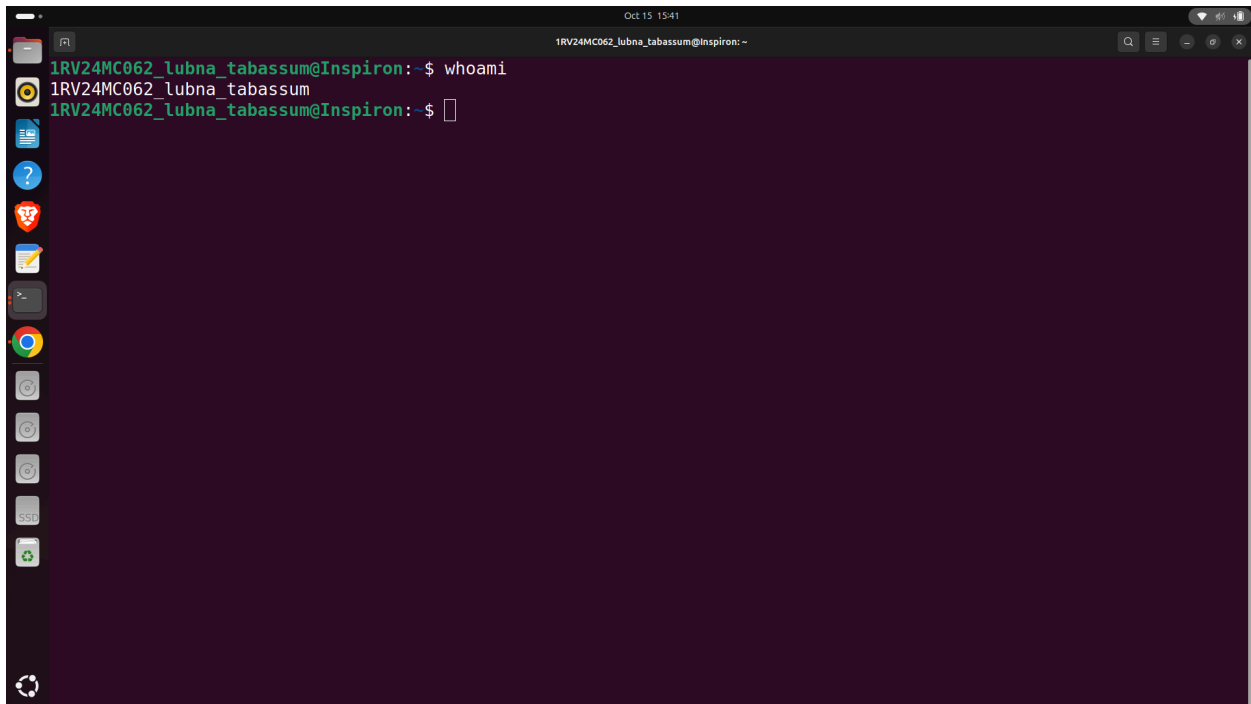


# Docker Documentation

## I. Changing username into USN\_Name format

A terminal window with a dark purple background. The prompt is '1RV24MC062\_lubna\_tabassum@Inspiron: ~'. The command 'whoami' has been entered and executed, resulting in the output '1RV24MC062\_lubna\_tabassum'. The terminal window has a title bar at the top showing 'Oct 15 15:41' and standard window controls. On the left side, there is a vertical dock with various application icons including a file manager, web browser, and system utilities.

```
1RV24MC062_lubna_tabassum@Inspiron: ~  
1RV24MC062_lubna_tabassum@Inspiron:~$ whoami  
1RV24MC062_lubna_tabassum  
1RV24MC062_lubna_tabassum@Inspiron:~$
```

The command 'whoami' gives the username of current user

## II. Docker Installation

The commands for docker installation are referred from [official](#) docker website

```
1RV24MC062_lubna_tabassum@Inspiron:~$ # 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
/ubun
  $(. /etc/os-release && echo "${UBUNTU_CODENAME:-$VERSION_CODENAME}") stable" | \
  sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
sudo apt-get update
[sudo] password for 1RV24MC062_lubna_tabassum:
Get:1 https://brave-browser-apt-release.s3.brave.com stable InRelease [7,546 B]
Hit:2 http://repo.mysql.com/apt/ubuntu noble InRelease
Get:3 https://packages.microsoft.com/repos/code stable InRelease [3,590 B]
Get:4 https://deb.nodesource.com/node_20.x nodistro InRelease [12.1 kB]
Get:5 https://dl.google.com/linux/chrome/deb stable InRelease [1,825 B]
Get:6 https://brave-browser-apt-release.s3.brave.com stable/main amd64 Packages [24.5 kB]
Hit:7 http://in.archive.ubuntu.com/ubuntu noble InRelease
Get:8 https://packages.microsoft.com/repos/code stable/main armhf Packages [19.9 kB]
Get:9 https://deb.nodesource.com/node_20.x nodistro/main amd64 Packages [12.8 kB]
Get:10 http://in.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:11 https://packages.microsoft.com/repos/code stable/main arm64 Packages [19.9 kB]
Get:12 https://packages.microsoft.com/repos/code stable/main amd64 Packages [19.8 kB]
Get:13 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:14 https://dl.google.com/linux/chrome/deb stable/main amd64 Packages [1,208 B]
Get:15 http://in.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:16 http://in.archive.ubuntu.com/ubuntu noble-updates/main i386 Packages [537 kB]
```

To verify that Docker is running, the following command is used

```
1RV24MC062_lubna_tabassum@Inspiron:~$ sudo systemctl status docker
Created symlink /etc/systemd/system/sockets.target → /usr/lib/systemd/system/docker.socket.
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for libc-bin (2.39-0ubuntu8.5) ...
1RV24MC062_lubna_tabassum@Inspiron:~$ 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 15:33:28 IST; 1min 48s ago
     TriggeredBy: ● docker.socket
       Docs: https://docs.docker.com
      Main PID: 20493 (dockerd)
         Tasks: 14
        Memory: 21.8M (peak: 23.4M)
           CPU: 258ms
      CGroup: /system.slice/docker.service
              └─20493 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

Oct 15 15:33:28 Inspiron dockerd[20493]: time="2025-10-15T15:33:28.188313829+05:30" level=info msg="detected 127.0.0.1"
Oct 15 15:33:28 Inspiron dockerd[20493]: time="2025-10-15T15:33:28.212872592+05:30" level=info msg="Creating a container"
Oct 15 15:33:28 Inspiron dockerd[20493]: time="2025-10-15T15:33:28.238681451+05:30" level=info msg="Loading container"
Oct 15 15:33:28 Inspiron dockerd[20493]: time="2025-10-15T15:33:28.478131180+05:30" level=info msg="Loading container"
Oct 15 15:33:28 Inspiron dockerd[20493]: time="2025-10-15T15:33:28.489772662+05:30" level=info msg="Docker daemon"
Oct 15 15:33:28 Inspiron dockerd[20493]: time="2025-10-15T15:33:28.489850908+05:30" level=info msg="Initializing buildkit"
Oct 15 15:33:28 Inspiron dockerd[20493]: time="2025-10-15T15:33:28.504821680+05:30" level=info msg="Completed buildkit"
Oct 15 15:33:28 Inspiron dockerd[20493]: time="2025-10-15T15:33:28.508980434+05:30" level=info msg="Daemon has completed initialization"
Oct 15 15:33:28 Inspiron dockerd[20493]: time="2025-10-15T15:33:28.509039385+05:30" level=info msg="API listen on /var/run/docker.sock"
Oct 15 15:33:28 Inspiron systemd[1]: Started docker.service - Docker Application Container Engine.

1RV24MC062_lubna_tabassum@Inspiron:~$ sudo systemctl start docker
1RV24MC062_lubna_tabassum@Inspiron:~$ docker --version
Docker version 28.5.1, build e180ab8
1RV24MC062_lubna_tabassum@Inspiron:~$
```

To check the docker version the following command is used

```
Oct 15 15:35
1RV24MC062_lubna_tabassum@Inspiron: ~
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /usr/lib/systemd/system/docker.socket.
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for libc-bin (2.39-0ubuntu8.5) ...
1RV24MC062_lubna_tabassum@Inspiron:~$ 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 15:33:28 IST; 1min 48s ago
     TriggeredBy: ● docker.socket
        Docs: https://docs.docker.com
       Main PID: 20493 (dockerd)
          Tasks: 14
         Memory: 21.8M (peak: 23.4M)
            CPU: 258ms
        CGroup: /system.slice/docker.service
                └─20493 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

Oct 15 15:33:28 Inspiron dockerd[20493]: time="2025-10-15T15:33:28.188313829+05:30" level=info msg="detected 127.0.0.1"
Oct 15 15:33:28 Inspiron dockerd[20493]: time="2025-10-15T15:33:28.212872592+05:30" level=info msg="Creating a container"
Oct 15 15:33:28 Inspiron dockerd[20493]: time="2025-10-15T15:33:28.238681451+05:30" level=info msg="Loading container"
Oct 15 15:33:28 Inspiron dockerd[20493]: time="2025-10-15T15:33:28.478131180+05:30" level=info msg="Loading container"
Oct 15 15:33:28 Inspiron dockerd[20493]: time="2025-10-15T15:33:28.489772662+05:30" level=info msg="Docker daemon"
Oct 15 15:33:28 Inspiron dockerd[20493]: time="2025-10-15T15:33:28.489850908+05:30" level=info msg="Initializing build"
Oct 15 15:33:28 Inspiron dockerd[20493]: time="2025-10-15T15:33:28.504821680+05:30" level=info msg="Completed build"
Oct 15 15:33:28 Inspiron dockerd[20493]: time="2025-10-15T15:33:28.508980434+05:30" level=info msg="Daemon has completed"
Oct 15 15:33:28 Inspiron dockerd[20493]: time="2025-10-15T15:33:28.509039385+05:30" level=info msg="API listen on 0.0.0.0"
Oct 15 15:33:28 Inspiron systemd[1]: Started docker.service - Docker Application Container Engine.

1RV24MC062_lubna_tabassum@Inspiron:~$ sudo systemctl start docker
1RV24MC062_lubna_tabassum@Inspiron:~$ docker --version
Docker version 28.5.1, build e180ab8
1RV24MC062_lubna_tabassum@Inspiron:~$
```