Docker Setup Documentation on Ubuntu

1. Verify Current User

Before proceeding with any installation, it's important to confirm which user account is currently active.

Command:

whoami

Purpose:

This command displays the username of the current user logged into the system.

Expected Output:

The username of the active user is shown, e.g., username.

Screenshot:

```
1RV24MC092_sampreeth@anantha-ASUS-TUF-Gaming-A15-FA506IHRB-FA506IHRZ:~$ whoami
1RV24MC092_sampreeth
1RV24MC092_sampreeth@anantha-ASUS-TUF-Gaming-A15-FA506IHRB-FA506IHRZ:~$ docker -v
bash: /usr/bin/docker: No such file or directory
1RV24MC092_sampreeth@anantha-ASUS-TUF-Gaming-A15-FA506IHRB-FA506IHRZ:~$
```

2. Install Latest Version of Docker from Official Repository

This section outlines the process of installing Docker using the official Docker repository on Ubuntu.

Steps:

1.	Update package index	
sudo a	pt-get update	

2. Install prerequisite packages

sudo apt-get install apt-transport-https ca-certificates curl software-properties-common

3. Add Docker's official GPG key

curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /usr/share/keyrings/docker-archive-keyring.gpg

5. Set up the stable Docker repository

echo "deb [arch=amd64 signed-by=/usr/share/keyrings/docker-archive-keyring.gpg] https://download.docker.com/linux/ubuntu \$(lsb_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list > /dev/null

6. Update package index again

sudo apt-get update

7. Install Docker Engine

sudo apt-get install docker-ce docker-ce-cli containerd.io

Screenshot:

```
1RV24MC092_sampreeth@anantha-ASUS-TUF-Gaming-A15-FA506IHRB-FA506IHRZ:~$ # Add Docker's official GPG key:
udo 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:
 "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
Hit:1 https://download.docker.com/linux/ubuntu noble InRelease
Hit:2 https://packages.microsoft.com/repos/code stable InRelease
Hit:3 https://dl.google.com/linux/chrome/deb stable InRelease
Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:5 http://in.archive.ubuntu.com/ubuntu noble InRelease
Hit:6 http://in.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:7 http://in.archive.ubuntu.com/ubuntu noble-backports InRelease
Reading package lists... Done
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 (8.5.0-2ubuntu10.6).
0 upgraded, 0 newly installed, 0 to remove and 353 not upgraded.
Hit:1 https://packages.microsoft.com/repos/code stable InRelease
Hit:2 http://in.archive.ubuntu.com/ubuntu noble InRelease
Hit:3 https://dl.google.com/linux/chrome/deb stable InRelease
Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:5 http://in.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:6 http://in.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:7 https://download.docker.com/linux/ubuntu noble InRelease
Reading package lists... Done
```

```
18V24MC092_sampreeth@anantha-ASUS-TUF-Caming-A1S-FAS0EINB2-FAS0EINB2:-5 sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin Boading package lists... Done
sulding dependency tree... Done
The following additional packages will be installed:
docker-ce-rootless-extras libsting® pigz sitrpAmetms
Suggested packages:
groupf-Snownlt | group-lite docker-model-plugin
The following MEM packages will be installed:
docker-ce-rootless-extras libsting® pigz sitrpAmetms
Containerd.io docker-ce-docker-ce-cli docker-ce-rootless-extras libsling® pigz sitrpAmetms
docker-buildx.plugin docker-compose-plugin
2 upgraded, 7 newly installed, 8 to remove and 351 not upgraded.
Need to get 195 NB of archives.
After this poeration, 280 NB of additional disk space will be used.
Do you want to continue? [V/n] V
4 cert's https://dom.load.docker.com/lux/buntur moble/stable amd64 containerd.io amd64 1.7.28-1-ubuntu 24.04-moble [31.9 MB]
Get's https://dom.load.docker.com/lux/buntur moble/stable amd64 containerd.io amd64 1.7.8-1-ubuntus [23.8 kB]
Get's https://dom.load.docker.com/lux/buntur moble/stable amd64 docker-ce-cli amd64 5:28.5.1-1-ubuntu.24.04-moble [16.5 MB]
Get's https://dom.load.docker.com/lux/buntur moble/stable amd64 docker-ce-cli amd64 5:28.5.1-1-ubuntu.24.04-moble [16.5 MB]
Get's https://dom.load.docker.com/lux/buntur moble/stable amd64 docker-ce-cli amd64 5:28.5.1-1-ubuntu.24.04-moble [19.7 MB]
Get's https://dom.load.docker.com/lux/buntur moble/stable amd64 docker-ce-crolless-extras amd64 1.2.1-buntu.24.04-moble [19.7 MB]
Get's https://dom.load.docker.com/lux/buntur moble/stable amd64 docker-ce-crolless-extras amd64 1.2.1-buntu.24.04-moble [19.7 MB]
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Get's https://dom.load.docker.com/lux/buntur moble/stable amd64 docker-ce-crol
```

3. Verify Docker Installation and Check Status

After installation, verify Docker is installed correctly and check its status.

Check Docker Version

sudo docker --version

Purpose:

Confirms the installed Docker version.

Expected Output:

Displays the installed Docker version, e.g., Docker version 20.10.x, build abcdefg.

Check Docker Service Status

sudo systemctl status docker

Purpose:

Ensures the Docker service is active and running.

Expected Output:

Shows Docker service status as active (running).

Screenshot:

Notes

• To run Docker commands without sudo, add your user to the Docker group:

sudo usermod -aG docker \$USER

• Log out and log back in to apply group changes.