

# AI-03123 Docker Install Fresh Ubuntu

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Here's a **step-by-step guide** to install **Docker Engine** and **Docker CLI** on **Ubuntu (20.04 / 22.04 / 24.04)** — the *official and clean* method recommended by Docker Inc.

## 1. Prerequisites

Run as **root** or prepend `sudo` to each command.

Update the system and remove any old Docker versions:

```
sudo apt update
sudo apt remove docker docker-engine docker.io containerd runc
```

## 2. Install Dependencies

These packages let `apt` use repositories over HTTPS:

```
sudo apt install -y ca-certificates curl gnupg apt-transport-https software-properties-common
```

## 3. Add Docker's Official GPG Key

```
sudo install -m 0755 -d /etc/apt/keyrings
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearm
or -o /etc/apt/keyrings/docker.gpg
sudo chmod a+r /etc/apt/keyrings/docker.gpg
```

## 4. Add the Docker Repository

```
echo \
  "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docke
r.gpg] \
  https://download.docker.com/linux/ubuntu \
  $(. /etc/os-release && echo "$VERSION_CODENAME") stable" | \
  sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
```

Then update package index:


```
sudo apt update
```

## 5. Install Docker Engine, CLI, and Containerd

```
sudo apt install -y docker-ce docker-ce-cli containerd.io docker-buildx-plugin
docker-compose-plugin
```

## 6. Verify Installation

```
sudo docker --version
sudo docker run hello-world
```

If you see the "Hello from Docker!" message —  Docker is working.

## 7. (Optional) Run Docker Without `sudo`

Add your user to the `docker` group:

```
sudo usermod -aG docker $USER  
newgrp docker
```

Then test again:

```
docker ps
```

## 8. (Optional) Enable on Boot

```
sudo systemctl enable docker  
sudo systemctl start docker
```

## Summary

Component	Description
<code>docker-ce</code>	Docker Engine
<code>docker-ce-cli</code>	Command-line interface
<code>containerd.io</code>	Container runtime
<code>docker-buildx-plugin</code>	Extended build support
<code>docker-compose-plugin</code>	Compose V2

Would you like me to include **Docker Compose v1 (legacy)** installation too, or are you fine using the **new Compose v2 plugin** (the `docker compose` command)?