To install Docker on Ubuntu, follow these steps:

### Step 1: Update the package list

sudo apt update

```

### Step 2: Install required packages

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

```

### Step 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

```

### Step 4: Add Docker's official repository

echo "deb [arch=$(dpkg --print-architecture) 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

```

### Step 5: Update the package list again

sudo apt update

```

### Step 6: Install Docker CE (Community Edition)

sudo apt install docker-ce

```

### Step 7: Verify the Docker installation

sudo docker --version

```

### Step 8: Start and enable Docker

sudo systemctl start docker

sudo systemctl enable docker

```

### Step 9: (Optional) Run Docker without `sudo`

To allow your user to run Docker commands without needing to use `sudo`:

sudo usermod -aG docker $USER

```

Then, log out and back in, or run:

su - $USER

```

Now you can verify by running:

docker run hello-world

```

This will pull and run the `hello-world` container to confirm Docker is installed properly.