# Installing Docker

## Step 1: Update your system

Run these commands to make sure all your packages are current:

sudo apt update  
sudo apt upgrade -y

## Step 2: Install required dependencies

Docker requires a few helper packages for HTTPS and repository management:

sudo apt install -y ca-certificates curl gnupg lsb-release

## Step 3: Add Docker’s official GPG key

Add the Docker GPG key to verify package signatures:

sudo mkdir -p /etc/apt/keyrings  
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /etc/apt/keyrings/docker.gpg

## Step 4: Add the Docker repository

Add the stable Docker repository for your Ubuntu version and update your package list:

echo \  
 "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.gpg] \  
 https://download.docker.com/linux/ubuntu \  
 $(lsb\_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list > /dev/null  
sudo apt update

## Step 5: Install Docker Engine and tools

Install the latest Docker Engine, CLI, and plugins:

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

## Step 6: Verify Docker installation

Check the version to confirm it installed correctly:

docker --version  
docker version