## ****Step 2: Install Docker in Ubuntu (WSL 2)****

1. Open **Ubuntu in WSL** and update your packages:

sudo apt update && sudo apt upgrade -y

1. Install required dependencies:

sudo apt install -y ca-certificates curl gnupg

1. Add Docker’s official GPG key:

sudo install -m 0755 -d /etc/apt/keyrings

curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo tee /etc/apt/keyrings/docker.asc > /dev/null

sudo chmod a+r /etc/apt/keyrings/docker.asc

1. Add the Docker repository:

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

1. Install Docker:

sudo apt update

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

1. Verify Docker installation:

docker --version

## ****Step 3: Allow Docker to Run Without sudo****

1. Add your user to the docker group:

sudo groupadd docker

sudo usermod -aG docker $USER

1. Restart WSL:

powershell

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wsl --shutdown

Then reopen Ubuntu.

1. Test Docker without sudo:

docker run hello-world

## ****Step 4: Enable Docker to Start Automatically in WSL****

Since WSL doesn't start services automatically, you need to start Docker manually each session:

bash

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sudo service docker start

To start it automatically, add this to your ~/.bashrc or ~/.zshrc:

bash

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sudo service docker start > /dev/null 2>&1