# Installation and Configuration of Docker on Ubuntu 16.04 LTS

## References

1. <https://docs.docker.com/engine/installation/linux/docker-ce/ubuntu/>
2. <https://www.digitalocean.com/community/tutorials/how-to-install-and-use-docker-on-ubuntu-16-04>
3. <https://github.com/docker/kitematic/releases/>
4. <https://github.com/max-devjs/kitematic.wiki-my/blob/master/Linux-Install.md>

## Prerequisites

1. Install Ubuntu (Desktop or Server) 16.04 LTS 64-bit and helper tools.

## Basic Install Procedure

1. Setup the Respoitory
   1. Update the apt package index:

sudo apt-get update

* 1. Install packages to allow apt to use a repository over HTTPS:

sudo apt-get install \

apt-transport-https \

ca-certificates \

curl software-properties-common

* 1. Add Docker’s official GPG key:

curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -

* 1. Verify that you now have the key with the fingerprint 9DC8 5822 9FC7 DD38 854A E2D8 8D81 803C 0EBF CD88, by searching for the last 8 characters of the fingerprint.

sudo apt-key fingerprint 0EBFCD88

* 1. Use the following command to set up the stable repository.

sudo add-apt-repository \

"deb [arch=amd64] https://download.docker.com/linux/ubuntu \

$(lsb\_release -cs) stable"

1. Install Docker CE
   1. Update the apt package index.

sudo apt-get update

* 1. Install the latest version of Docker CE.

sudo apt-get install docker-ce

* 1. Verify that Docker CE is installed correctly by running the hello-world image.

sudo docker run hello-world

1. Post Install
   1. Add current user to the docker group

sudo groupadd docker

sudo usermod -aG docker $USER

sudo service docker restart

1. Install Kitematic
   1. Download the current Debian package from <https://github.com/docker/kitematic/releases/>

wget https://github.com/docker/kitematic/releases/download/vX.X.X/Kitematic-X.X.X-Ubuntu.zip

wget https://github.com/docker/kitematic/releases/download/v0.17.3/Kitematic-0.17.3-Ubuntu.zip

* 1. Unzip the Debian package

unzip Kitematic-X.X.X-Ubuntu.zip

unzip Kitematic-0.17.3-Ubuntu.zip

* 1. Open a terminal session and navigate to the unzipped folder for the Debian package
     1. If in the folder where it was unzipped:

cd ./dist/

* 1. Install the Debian package

sudo dpkg -i ./Kitematic\_X.X.X\_amd64.deb

sudo dpkg -i ./Kitematic\_0.17.3\_amd64.deb

1. Run & Pin Kitematic
   1. Open ‘Software Center’ and search for ‘Kitematic’ on the Installed tab.
   2. Click on Kitematic & Launch it.
   3. Right-click it on the taskbar and pin it by clicking ‘Lock to Launcher’.

## Maintenance Commands

1. Start & Stop the Service

sudo systemctl start docker

sudo systemctl stop docker