# 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.

## Install Procedure

1. Setup the Repository
   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 folder with the Zip file.
  2. Install the Debian package

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

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

* 1. Delete the Debian package & unzipped files

sudo rm ./Kitematic-X.X.X3-Ubuntu.zip

sudo rm ./Kitematic-0.17.3-Ubuntu.zip

sudo rm -rf ./dist/

1. Reboot
2. Pin the following programs to the Launcher
   1. Programs to pin
      1. Kitematic
   2. Procedure to pin
      1. Open search icon from the Launcher (uppermost icon)
      2. Search for the program name
      3. Click it to run it
      4. Right-click the icon in the Launcher and select ‘Lock to Launcher’
3. Run Kitematic & Login with your Docker account.
4. Download Docker images as required

## Maintenance Commands

1. Start, Stop, or Restart the Service

sudo systemctl start docker

sudo systemctl stop docker

sudo systemctl restart docker