**How To Install Docker On Ubuntu 18.04 / Linux Mint**

**Prerequisites :**

* Ubuntu 18.04 64-bit operating system
* A user account with **sudo**privileges
* Command-line/terminal (**CTRL-ALT-T or Applications menu > Accessories > Terminal**)
* Docker software repositories (optional)

Follow these Steps:

1. sudo apt update sudo apt install apt-transport-https ca-certificates curl gnupg-agent software-properties-common
2. curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add –
3. sudo add-apt-repository \

"deb [arch=amd64] https://download.docker.com/linux/ubuntu $(lsb\_release -cs) stable"

1. sudo apt update
2. sudo apt install docker-ce
3. apt list -a docker-ce
4. sudo apt install docker-ce=5:18.09.6~3-0~ubuntu-bionic
5. sudo apt-mark hold docker-ce
6. sudo systemctl status docker
7. sudo usermod -aG docker $USER
8. docker container run hello-world

Upgrading Docker: -

When a new Docker version is released you can update the package using the standard upgrade process:

1. sudo apt update
2. sudo apt upgrade

Uninstalling Docker: -

1. sudo apt purge docker-ce
2. sudo apt autoremove

Docker Command line Interface: -

1. docker [option] [subcommand] [arguments]
2. docker –help

Docker Image: -

A Docker image is made up of a series of filesystem layers representing instructions in the image’s [Dockerfile](https://linuxize.com/post/how-to-build-docker-images-with-dockerfile/) that makes up an executable software application. An image is an immutable binary file including the application and all other dependencies such as libraries, binaries, and instructions necessary for running the application.

Search Docker Image: -

To search for an image from the Docker Hub registry, use the search subcommand.

For example, to search for an Ubuntu image, you would type:

1. docker search ubuntu

Download Docker Images: -

For example, to download the latest official build of the Ubuntu 18.04 image, you would use the following image pull command:

1. docker image pull ubuntu

Image List: -

To list all downloaded images type:

1. docker image ls

Remove an Image: -

If for some reasons, you want to delete an image, you can do that with the image rm [image\_name] subcommand:

1. docker image rm ubuntu

Docker Container: -

An instance of an image is called a container. A container represents a runtime for a single application, process, or service.

It may not be the most appropriate comparison, but if you are a programmer, you can think of a Docker image as class and Docker container as an instance of a class.

We can start, stop, remove, and manage a container with the docker container subcommand.

1. docker container run ubuntu
2. docker container run -it ubuntu /bin/bash
3. docker container ls
4. docker container ls -a
5. docker container rm container\_id
6. docker container rm prune -f