**Docker machine**

<https://docs.docker.com/machine/overview/#whats-the-difference-between-docker-engine-and-docker-machine>

Docker Engine runs natively on Linux systems.

If you have a Linux box as your primary system, and want to run docker commands, all you need to do is download and install Docker Engine.

However, if you want an efficient way to provision multiple Docker hosts on a network, in the cloud or even locally, you need Docker Machine.

Whether your primary system is Mac, Windows, or Linux, you can install Docker Machine on it and use docker-machine commands to provision and manage large numbers of Docker hosts.

It automatically creates hosts, installs Docker Engine on them, then configures the docker clients. Each managed host (“***machine***”) is the combination of a Docker host and a configured client.

http://www.macadamian.com/learn/docker-machine-basic-examples/

**Install docker machine in linux**

<https://docs.docker.com/v17.09/machine/install-machine/>

1.

**Install docker machine**

curl -L https://github.com/docker/machine/releases/download/v0.13.0/docker-machine-`uname -s`-`uname -m` >/tmp/docker-machine && \  
chmod +x /tmp/docker-machine && \  
sudo cp /tmp/docker-machine /usr/local/bin/docker-machine

2.

**Check the docker machine installation**

docker-machine version

3.

**Uninstall a docker machine**

Remove the executable: rm $(which docker-machine)

To remove each machine individually: docker-machine rm <machine-name>

To remove all machines: docker-machine rm -f $(docker-machine ls -q)

<https://docs.docker.com/machine/get-started/#create-a-machine>

**Install VM in your machine**

<https://www.virtualbox.org/wiki/Linux_Downloads>

1.

Add the following line to your /etc/apt/sources.list

deb https://download.virtualbox.org/virtualbox/debian <mydist> contrib

2.

Find linux distribution name and version

<https://www.cyberciti.biz/faq/find-linux-distribution-name-version-number/>

lsb\_release -a

deb https://download.virtualbox.org/virtualbox/debian bionic contrib

3.

If No permission

3.1

List user and group permissions for this file

ls -al /etc/apt/sources.list

3.2

Change the user to the current user

sudo chown -R $(whoami) /etc/apt/sources.list

3.3

Add the following line to your /etc/apt/sources.list

nano /etc/apt/sources.list

deb https://download.virtualbox.org/virtualbox/debian bionic contrib

Save

4.

download & register virtualbox

wget -q https://www.virtualbox.org/download/oracle\_vbox\_2016.asc -O- | sudo apt-key add -  
wget -q https://www.virtualbox.org/download/oracle\_vbox.asc -O- | sudo apt-key add -

5.update the repositories

sudo apt-get update

6.install virtualbox

sudo apt-get install virtualbox-6.0

**Create docker machine**

1.

Create docker machine

docker-machine ls

2.

2.1

Create docker machine with boot2docker os

docker-machine create --driver virtualbox default

2.2 (extra step)

Define virtual box size when creating

docker-machine create -d virtualbox --virtualbox-disk-size "100000" large

3.

Get the docker machine env variables

docker-machine env default

4.

Open a new terminal or use the existing terminal

Connect your shell to your new machine /docker client

eval "$(docker-machine env default)"

5.

Run a docker from this client

docker run busybox echo hello world

6.

Login to a docker machine

sarala@sarala-pc:~/Desktop$ docker-machine ssh default

( '>')

/) TC (\ Core is distributed with ABSOLUTELY NO WARRANTY.

(/-\_--\_-\) www.tinycorelinux.net

docker@default:~$ pwd

/home/docker

**Docker machine CLI reference**

<https://docs.docker.com/machine/reference/>

docker-machine ip default

docker-machine stop default

docker-machine start default

When again starting ip addresses are newly assigned

May have to run docker-machine env and bind it to the shells again

**Docker machine drivers**

<https://docs.docker.com/machine/drivers/>