Docker containerization

<https://docs.docker.com/install/linux/docker-ce/ubuntu/>

$ sudo apt install docker.io

## **Configure Docker to start on boot**

Most current Linux distributions (RHEL, CentOS, Fedora, Ubuntu 16.04 and higher) use [systemd](https://docs.docker.com/install/linux/linux-postinstall/" \l "systemd) to manage which services start when the system boots. Ubuntu 14.10 and below use [upstart](https://docs.docker.com/install/linux/linux-postinstall/#upstart).

### systemd

$ sudo systemctl enable docker

To disable this behavior, use disable instead.

$ sudo systemctl disable docker

If you need to add an HTTP Proxy, set a different directory or partition for the Docker runtime files, or make other customizations, see [customize your systemd Docker daemon options](https://docs.docker.com/engine/admin/systemd/).

### upstart

Docker is automatically configured to start on boot using upstart. To disable this behavior, use the following command:

$ echo manual | sudo tee /etc/init/docker.override

### chkconfig

$ sudo chkconfig docker on

Notes from Docker tutorials Plural sight,

1. Docker image will have one to many relationships with containers.
2. Image provide,
   1. File System
   2. MetaData
   3. A Command
3. Ways of crating docker images,
   1. An image is build using a sequence of instructions contained in a special file called a Docker file.
   2. Changes to a containers file system during execution, are committed to a brand new image.
4. Choosing the right base image is important, Is the image fit for purpose?, can you trust the content on the base image?
5. Container is invoked using “docker container run” command.
6. Typical Docker File contains
   1. Configuration object
   2. Ports exposed
   3. Root Filesystem object
   4. Ordered list of references of individual layers of file system content.
   5. Each reference is a 256-bit hash of the contents of the layer.
7. Image Size matters
8. An docker image build is invoked with docker image build command, the build context is sent as an archive from client to demon.
9. sudo apt install unzip to install unzip, unzip filename.zip
10. How to reset password in ubunt linux, glcoud machine

vfa\_gianglt@instance-1:~$ sudo -i

root@instance-1:~# sudo bash

root@instance-1:~# sudo passwd root

Enter new UNIX password:

Retype new UNIX password:

passwd: password updated successfully

root@instance-1:~# cd /root

root@instance-1:~#

1. Restart nginx after default settings,

sudo fuser -k 80/tcp,sudo fuser -k 443/tcp, Then execute sudo service nginx restart

//Command to build docker file and –t stands for tagging with a name

docker build –t app .

//to run container , -it stands for interactive terminal

Docker run –it 4da53(image id)

# **ASP.NET Core deployment using Docker, Nginx and Ubuntu Server**

<https://www.youtube.com/watch?v=WUzEJuBYtY0>

<https://docs.microsoft.com/en-us/nuget/reference/nuget-config-file#config-section>

<https://codefresh.io/docker-tutorial/build-docker-image-dockerfiles/>

Command to build project with proxy settings,

“docker build --build-arg http\_proxy=http://proxy2024.scansafe.net:8080 --build-arg https\_proxy=http://proxy2024.scansafe.net:8080 .”

devenv.exe.config

<system.net>

<defaultProxy enabled="true" useDefaultCredentials="true">

<proxy usesystemdefault="true" bypassonlocal="true" />

</defaultProxy>

<settings>

<ipv6 enabled="true"/>

</settings>

</system.net>

NugetConfig (%appdata%\Nuget)

<config>

<add key="http\_proxy" value="http://proxy2024.scansafe.net" />

<add key="https\_proxy" value="https://proxy2024.scansafe.net" />

</config>