Docker Lab

10:59 AM

Setup a Simple Apache Web Server in a Docker Container

systemctl start docker

systemctl status docker

sudo docker run -dit --name demo-web -p 8080:80 -v
/home/user/website/:/usr/local/apache2/htdocs/ httpd:2.4

We will use an image called httpd:2.4 from Docker Hub.
requests made to our public IP address on port 8080 be redirected to port 80 on the container.
serving content from the container itself, we will serve a simple web page from /home/user/website.
mapping /home/user/website/ on the /usr/local/apache2/htdocs/ on the container. Note that you will need to use sudo or log in as root to proceed

sudo docker ps

create simple page

vi /home/user/website/docker.html

publicip:8080/docker.html

sudo docker stop demo-web
sudo docker rm demo-web

sudo docker image remove httpd:2.4

How to Build a Docker Image and Docker Container Using Dockerfile?

First of all, you should create a directory in order to store all the Docker images you build.

mkdir demo_docker

cd demo_docker
touch Dockerfile

- Open the file with the editor. In this example, we opened the file using vi:
  vi Dockerfile

- Then, add the following content:
  FROM ubuntu
  MAINTAINER simpli
  RUN apt-get update
  CMD ["echo", "Welcome to Docker demo"]

- 5.Save and exit the file.

Now, let’s build a basic image using a Dockerfile:

docker build [location of your dockerfile]

Now, by adding -t flag, the new image can be tagged with a name:

docker build -t welcome_image

Please start docker demon before build image

DELL@DESKTOP-AARVGFN MINGW64 ~/Desktop/docker-demo
$ docker build . -t welcom_image
#1 [internal] load build definition

Verify image

docker images

Create a New Container

docker run --name mydemocont welcome_image

DELL@DESKTOP-AARVGFN MINGW64 ~/Desktop/docker-demo
$ docker run --name mydemocont welcom_image
Welcome to Docker demo