**How to deploy a static website on Docker container**

**Step1:**

Please make sure you have Docker installed instance. If not follow below steps to install Docker.

* apt-get update
* apt install docker.io
* apt-get update
* java –version
* apt install default-jre
* apt install default-jdk
* apt-get update

**Step2:**

To deploy a website, we have to create a directory so that we can create all required file in this dir.

* **mkdir test-website**
* **cd test-website**
* **vi index.html**

*<html><h1> Hi ,This website is running on Docker container!!<h1>:<html>*

We can deploy with apache ,first need to create a **Dockerfile.**

root@ip-172-31-34-63:~/test-website# **cat Dockerfile**

*FROM httpd:2.4*

*COPY . /usr/local/apache2/htdocs/*

**Step3:**

**Now need to build image.**

root@ip-172-31-34-63:~/test-website# docker build -t test-website .

**Sending build context to Docker daemon 3.072kB**

**Step 1/2 : FROM httpd:2.4**

**2.4: Pulling from library/httpd**

**000eee12ec04: Pull complete**

**32b8712d1f38: Pull complete**

**f1ca037d6393: Pull complete**

**c4bd3401259f: Pull complete**

**0213122c8c28: Pull complete**

**Digest: sha256:a45d041cc64876eade5209784c472f373886950925e86a233f73c3f577c9d207**

**Status: Downloaded newer image for httpd:2.4**

**---> d4a061d58465**

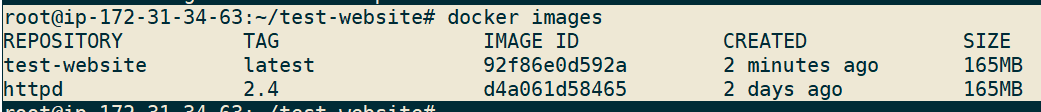
**Step 2/2 : COPY . /usr/local/apache2/htdocs/**

**---> 92f86e0d592a**

**Successfully built 92f86e0d592a**

**Successfully tagged test-website:latest**

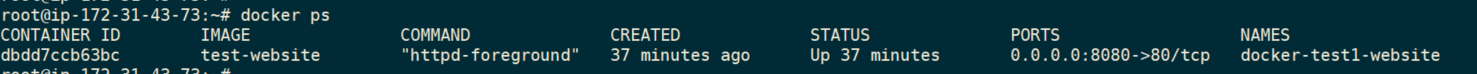
* root@ip-172-31-34-63:~/test-website# **docker images** | It will show images has been created and in running state.



* **docker run -dit --name docker-test1-website -p 8080:80 test-website| To running container in detach /interactive mode with mapped port and in sudo terminal.**

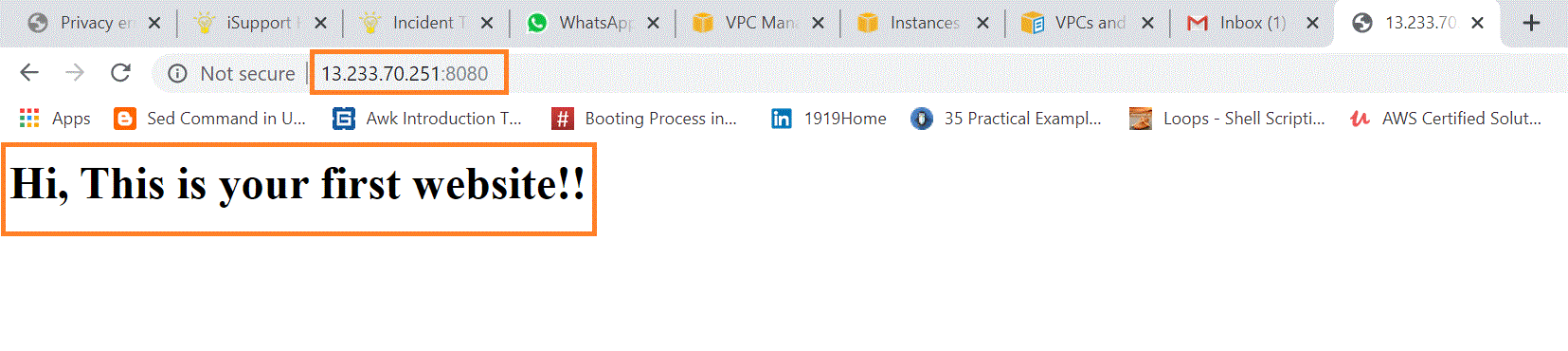
**Output:**

981e2ed8985a8056b95892b5c7f3f54b54d9ec6f3c0defddd5f7d98800c18404



**Step4:**

* **Now take Public IP of your instance and run with port number as we defined.**



**Step5:**

**IF you want to push this image in your docker hub.**

* root@ip-172-31-43-73:~# **docker tag 5bf08af6afac abhinavdwi/test-website:version1**
* **docker login** | You need to provide your docker hub user name /password.

Username: abhinavdwi

Password:

**WARNING! Your password will be stored unencrypted in /root/.docker/config.json.**

**Configure a credential helper to remove this warning. See**

**https://docs.docker.com/engine/reference/commandline/login/#credentials-store**

**Login Succeeded**

* **docker push abhinavdwi/test-website | To Push your image into Docker hub.**

**root@ip-172-31-43-73:~# docker push abhinavdwi/test-website**

**The push refers to repository [docker.io/abhinavdwi/test-website]**

**4c6ca29c2b6e: Pushed**

**5beec5c12c1c: Mounted from library/httpd**

**0b56a8e92b13: Mounted from library/httpd**

**133d2fad03ff: Mounted from library/httpd**

**83c5929f7818: Mounted from library/httpd**

**831c5620387f: Mounted from library/httpd**

**version1: digest: sha256:ac475c36898744ebaed3c46c90461d5a9b8f2375c56da62693515a5730d4c855 size: 1574**

* **Go to your Docker hub account and check the same.**

