Hello World in Docker

The most-awaited Hello World

We'll cover the following

Hello world in Docker

Congratulations! You have set up Docker on your system and we are one chapter away to start using it. As it is after every successful software setup, everyone hits that one line which tells them everything is working fine. Fortunately, Docker also has that line and it looks like:

`$ docker run hello-world`

Run this in the terminal or Docker shell and you should get the following output:

```
$ docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
0e03bdcc26d7: Pull complete
Digest: sha256:8e3114318a995a1ee497790535e7b88365222a21771ae7e53687ad76563e8e7
6
Status: Downloaded newer image for hello-world:latest

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
 1. The Docker client contacted the Docker daemon.
 2. The Docker daemon pulled the "hello-world" image from the Docker Hub. (amd
64)
 3. The Docker daemon created a new container from that image that runs the ex
ecutable that produces the output you are currently reading.
 4. The Docker daemon streamed that output to the Docker client, which sent i
t to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
```

```
 $ docker run -it ubuntu bash


Share images, automate workflows, and more with a free Docker ID:
 https://hub.docker.com/

For more examples and ideas, visit:
 https://docs.docker.com/get-started/
```

> If you get some error saying “Can’t communicate with Docker”, make sure you have added the current user to the Docker group or just use sudo before the command.

If you get the output above, all is set. If you read the sentences below, line by line, you will be able to recall what we have learned in the architecture lesson.

1. Docker daemon first tries to find the image locally.
2. It pulls the image from the registry.
3. Docker daemon runs the image.

But there is something in between step 1 and step 2 here:

```
1b930d010525: Pull complete
Digest: sha256:b8ba256769a0ac28dd126d584e0a2011cd2877f3f76e093a7ae560f2a5301c0
0
```

Any thoughts on what this means? Well, don’t worry. In the next lesson, we will see what it is and why it is important to know this.