

Module 6: Containerization With Docker

Demo Document

edureka!

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Demo – 1: Running Hello World In Docker

■ Search Hello World

```
root@test01:/home/edureka# docker search hello
NAME                DESCRIPTION                STARS     OFFICIAL   AUTOMATED
hello-world         Hello World! (an example of minimal Docker... 293       [OK]
tutum/hello-world   Image to test docker deployments. Has Apac... 33
google/nodejs-hello 15
dockercloud/hello-world Hello World!                12        [OK]
google/golang-hello 8
nginxdemos/hello     NGINX webserver that serves a simple page ... 3
readytalk/nodejs-hello 2
google/ruby-hello    2
eeacms/hello         Hello world docker image to be used to tes... 2
mosampaio/hello-node hello-node                  1
empiregeneral/node-hello gcr.io/google_containers/node-hello:1.0    1
carinamarina/hello-world-app This is a sample Python web application, r... 1
jmreeve007/hello-world Create automated build for changes to hell... 0
janochri011394/ruby-hello ruby hello app              0
franklinvuy/sinatra-hello This is a hello-world server built with Si... 0
hello-seattle        Hello from DockerCon 2016 (Seattle)!        0
mikeraab/hello-earth My hello earth example      0
wilsonian/hellohttp Basic hello world http app in golang         0
ktateish/hello-demo  hello world demo web app    0
prologic/hello       Docker Hello World!         0
jiglesgom/hello      hello world as a springboot service on por... 0
jontymc/hello         .net core api hello world   0
navycloud/hello-world Navy hello world             0
dlamotte0/hello       flask app for hello world    0
gutenye/hello-node   hello node                   0
```

■ Pull Hello World from Docker Hub

```
root@test01:/home/edureka# docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world

78445dd45222: Pull complete
Digest: sha256:c5515758d4c5e1e838e9cd307f6c6a0d620b5e07e6f927b07d05f6d12a1ac8d7
Status: Downloaded newer image for hello-world:latest
root@test01:/home/edureka#
```

■ Run Hello World

```
root@test01:~# docker run hello-world

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.
 3. The Docker daemon created a new container from that image which runs the
    executable that produces the output you are currently reading.
 4. The Docker daemon streamed that output to the Docker client, which sent it
    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://cloud.docker.com/

For more examples and ideas, visit:
https://docs.docker.com/engine/userguide/

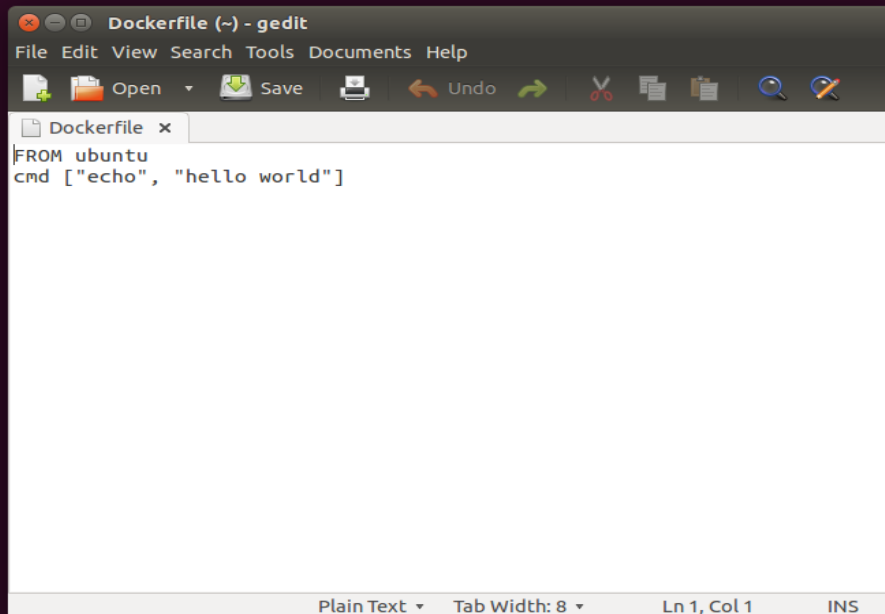
root@test01:~# █
```

Demo – 2: Create & Build Docker File

- Creating an empty file

```
root@test01:~# touch Dockerfile
root@test01:~# gedit Dockerfile
```

- Editing the file



- Building the Docker file

```
root@test01:~# gedit Dockerfile
root@test01:~# docker build .
Sending build context to Docker daemon   513 kB
Step 1 : FROM ubuntu
--> 4ca3a192ff2a
Step 2 : CMD echo hello world
--> Running in 876177664b4f
--> 7c226dc91bb2
Removing intermediate container 876177664b4f
Successfully built 7c226dc91bb2
root@test01:~#
```

```
root@test01:~# docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
<none>	<none>	7c226dc91bb2	8 minutes ago	128.2 MB
hello-world	latest	48b5124b2768	3 months ago	1.84 kB
ubuntu	latest	4ca3a192ff2a	4 months ago	128.2 MB

```
root@test01:~#
```

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