

1.- Crear cuenta en <https://hub.docker.com/>

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2.- run hello-world

```
$ sudo docker run hello-world
$ sudo docker images
$ sudo docker ps
$ sudo docker ps -a
$ sudo docker rm xxx
```

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3.- hello world Apache

```
$ sudo docker login
$ sudo docker pull httpd
$ sudo docker images httpd
$ sudo docker run --name container-httpd -p 80xx:80 -d httpd
$ curl localhost
$ sudo docker exec -it xxx bash
```

```
-----
# apt-get update
# apt-get install vim-tiny
# cd htdocs
# vi index.html
# exit
```

```
-----
$ curl localhost
$ sudo docker ps
$ sudo docker stop xxx
$ sudo docker ps
$ sudo docker ps -a
$ sudo docker start xxx
```

-----

4.- create docker with volumen (-v)

```
$ mkdir www
$ cd www
$ vi index.html
$ cd ..
$ sudo docker run -dit --name <user>-container -p 8xxx:80 -v /home/
<user>/www:/usr/local/apache2/htdocs/ httpd
```

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5.- create Docker from Scratch, push, pull

```
$ mkdir nodeimage
$ cd nodeimage
$ vi Dockerfile
```

```
# We use debian as our base distro for this container.
FROM debian:jessie
```

```
# Refresh apt-get.
RUN apt-get update
```

```
# Install some utilities needed by node, npm.
RUN apt-get install -y curl make g++
```

```
# Install Node.js and npm.
RUN curl -sL https://deb.nodesource.com/setup_10.x | bash -
RUN apt-get install -y nodejs
```

```
# Install required npm packages.
ADD package.json /package.json
RUN npm install
```

```
# Set /src as the working directory for this container.
WORKDIR /src
```

```
# Open up external access to port 80.
EXPOSE 80xx
```

```
# Run startup command.
CMD ["node", "/src/server.js"]
```

```
$ vi package.json
```

```
{
  "name": "node-image",
  "private": true,
  "version": "1.0.0",
  "description": "Docker image - node",
  "author": "Adolfo Centeno <adsoft@live.com.mx>",
  "dependencies": {
    "express": "3.2.4"
  }
}
```

```
$ mkdir src
$ cd src
$ vi server.js
```

```
var express = require('express');

// Constants
var PORT = 8080;

// App
var app = express();
app.get('/', function (req, res) {
  res.sendFile('/src/index.html');
});

app.listen(PORT);
console.log('Running on port ' + PORT);
```

```
$ vi index.html
```

```
Hello World!
<br>
by adsoft
```

```
$ sudo docker build -t <dockeruser>/my-node .
```

```
$ sudo docker run --name containernode -p 80xx:8080 -v $PWD/src:/src -
d <dockeruser>/my-node
$ sudo docker push <dockeruser>/my-node
```