

- Run the container hello-world

```

See 'docker run --help'.
[node1] (local) root@192.168.0.13 ~
$ docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
e6590344b1a5: Pull complete
Digest: sha256:c41088499908a59aae84b0a49c70e86f4731e588a737f1637e73c8c09d995654
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.
    (amd64)
 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://hub.docker.com/

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

```

- Check the container status

```

[node1] (local) root@192.168.0.13 ~
$ docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS              PORTS          NAMES
4c15307fa4fb   hello-world    "/hello"                 40 seconds ago Exited (0) 39 seconds ago           pensive_galois

```

- Start the stopped container

```

[node1] (local) root@192.168.0.13 ~
$ docker start 4c15307fa4fb
4c15307fa4fb

```

- Remove the container

```

4c15307fa4fb
[node1] (local) root@192.168.0.13 ~
$ docker rm 4c15307fa4fb
4c15307fa4fb

```

- Remove the image

```

4c15307fa4fb
[node1] (local) root@192.168.0.13 ~
$ docker rmi hello-world
Untagged: hello-world:latest
Untagged: hello-world@sha256:c41088499908a59aae84b0a49c70e86f4731e588a737f1637e73c8c09d995654
Deleted: sha256:74cc54e27dc41bb10dc4b2226072d469509f2f22f1a3ce74f4a59661a1d44602
Deleted: sha256:63a41026379f4391a306242eb0b9f26dc3550d863b7fdbb97d899f6eb89efe72

```

- Run container centos or ubuntu in an interactive mode

```
$ docker run -it ubuntu
Unable to find image 'ubuntu:latest' locally
latest: Pulling from library/ubuntu
2726e237d1a3: Pull complete
Digest: sha256:1e622c5f073b4f6bfad6632f2616c7f59ef256e96fe78bf6a595d1dc4376ac02
Status: Downloaded newer image for ubuntu:latest
root@2dfb069e0ccf:/#
```

- Run the following command in the container “echo docker”

```
$ docker run -it ubuntu
root@c0aca9c81ddd:/# echo docker
docker
root@c0aca9c81ddd:/#
```

- Open a bash shell in the container and touch a file named hello-docker

```
[node1] (local) root@192.168.0.13 ~
$ docker run -it ubuntu
root@c0aca9c81ddd:/# echo docker
docker
root@c0aca9c81ddd:/# touch hello-docker
root@c0aca9c81ddd:/# ls
bin    dev  hello-docker  lib    media  opt    root  sbin  sys  usr
boot  etc  home          lib64  mnt    proc   run   srv   tmp  var
root@c0aca9c81ddd:/#
```

Stop the container and remove it. Write your comment about the file hello-docker

```
[node1] (local) root@192.168.0.13 ~
$ docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS
PORTS         NAMES
c0aca9c81ddd   ubuntu    "/bin/bash"             About a minute ago   Exited (127) 4 seconds ago
nostalgic_montalcini
2dfb069e0ccf   ubuntu    "/bin/bash"             11 minutes ago      Exited (0) About a minute ago
kind_herschel
[node1] (local) root@192.168.0.13 ~
$ ^C
[node1] (local) root@192.168.0.13 ~
$ docker rm c0aca9c81ddd
c0aca9c81ddd
[node1] (local) root@192.168.0.13 ~
```

Once the container is removed, also the file is being removed because there is no volume.

```
[node1] (local) root@192.168.0.13 ~  
$ docker container prune -f  
Deleted Containers:  
2dfb069e0ccff557cd82bab03933b4607684b41b7f8964bd1c5c4cfa990b76c0  
  
Total reclaimed space: 17B
```