

```

avcoe@avcoe-HP-ProDesk-400-G1-SFF:~$ sudo usermod -aG docker ${USER}
[sudo] password for avcoe:
avcoe@avcoe-HP-ProDesk-400-G1-SFF:~$ su - ${USER}
Password:
avcoe@avcoe-HP-ProDesk-400-G1-SFF:~$ groups
avcoe adm cdrom sudo dip plugdev lpadmin lxd sambashare docker
avcoe@avcoe-HP-ProDesk-400-G1-SFF:~$ sudo usermod -aG docker username
usermod: user 'username' does not exist
avcoe@avcoe-HP-ProDesk-400-G1-SFF:~$ groups
avcoe adm cdrom sudo dip plugdev lpadmin lxd sambashare docker
avcoe@avcoe-HP-ProDesk-400-G1-SFF:~$ sudo usermod -aG docker avcoe
avcoe@avcoe-HP-ProDesk-400-G1-SFF:~$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
avcoe@avcoe-HP-ProDesk-400-G1-SFF:~$ docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
2db29710123e: Pull complete
Digest: sha256:ffb13da98453e0f04d33a6eee5bb8e46ee50d08ebe17735fc0779d0349e889e9
Status: Downloaded newer image for hello-world:latest
docker.io/library/hello-world:latest
avcoe@avcoe-HP-ProDesk-400-G1-SFF:~$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
hello-world latest feb5d9fea6a5 18 months ago 13.3kB
avcoe@avcoe-HP-ProDesk-400-G1-SFF:~$ 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.
(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/>

```

avcoe@avcoe-HP-ProDesk-400-G1-SFF:~$ docker -v
Docker version 23.0.1, build a5ee5b1
avcoe@avcoe-HP-ProDesk-400-G1-SFF:~$ docker pull openjdk
Using default tag: latest
latest: Pulling from library/openjdk
197c1adcd755: Pull complete

```

```

57b698b7af4b: Pull complete
95a27dbe0150: Pull complete
Digest: sha256:9b448de897d211c9e0ec635a485650aed6e28d4eca1efbc34940560a480b3f1f
Status: Downloaded newer image for openjdk:latest
docker.io/library/openjdk:latest
avcoe@avcoe-HP-ProDesk-400-G1-SFF:~$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
openjdk latest 71260f256d19 5 weeks ago 470MB
hello-world latest feb5d9fea6a5 18 months ago 13.3kB
avcoe@avcoe-HP-ProDesk-400-G1-SFF:~$ docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
avcoe@avcoe-HP-ProDesk-400-G1-SFF:~$ docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
04317a6e6519 hello-world "/hello" 15 minutes ago Exited (0) 15 minutes ago
blissful_almeida
avcoe@avcoe-HP-ProDesk-400-G1-SFF:~$ docker run openjdk
Mar 20, 2023 9:32:43 AM java.util.prefs.FileSystemPreferences$1 run
INFO: Created user preferences directory.
| Welcome to JShell -- Version 18.0.2.1
| For an introduction type: /help intro

jshell> avcoe@avcoe-HP-ProDesk-400-G1-SFF:~$ docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
ca067ac7baab openjdk "jshell" 10 seconds ago Exited (0) 4 seconds ago
magical_ritchie
04317a6e6519 hello-world "/hello" 16 minutes ago Exited (0) 16 minutes ago
blissful_almeida
avcoe@avcoe-HP-ProDesk-400-G1-SFF:~$ docker run --name JDK -it -d openjdk
bd19bbfd24c0ffcc52d65bfa7bc7df03b520a569a12efad09a2e8a8fb2ffe8c3
avcoe@avcoe-HP-ProDesk-400-G1-SFF:~$ docker exec -it ca067ac7baab jshell
Error response from daemon: Container
ca067ac7baab73d7d053d0be6de7a249aae11dd3e58636376de7959c48e0bd45 is not running
avcoe@avcoe-HP-ProDesk-400-G1-SFF:~$ docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
bd19bbfd24c0 openjdk "jshell" 3 minutes ago Up 3 minutes JDK
ca067ac7baab openjdk "jshell" 5 minutes ago Exited (0) 5 minutes ago
magical_ritchie
04317a6e6519 hello-world "/hello" 21 minutes ago Exited (0) 21 minutes ago
blissful_almeida
avcoe@avcoe-HP-ProDesk-400-G1-SFF:~$ docker exec -it bd19bbfd24c0 jshell
| Welcome to JShell -- Version 18.0.2.1
| For an introduction type: /help intro

jshell> system.out.println
| Error:
| package system does not exist
| system.out.println
| ^-----^

```

```
jshell> System.out.println
| Error:
| cannot find symbol
|   symbol:   variable println
| System.out.println
| ^-----^
```

```
jshell> System.out.println("siddhi")
siddhi
```

```
jshell> /exit
```

```
| Goodbye
```

```
avcoe@avcoe-HP-ProDesk-400-G1-SFF:~$ docker pull python
```

```
Using default tag: latest
```

```
latest: Pulling from library/python
```

```
32fb02163b6b: Pull complete
```

```
167c7feebee8: Pull complete
```

```
d6dfff1f6f3d: Pull complete
```

```
e9cdcd4942eb: Pull complete
```

```
ca3bce705f6c: Pull complete
```

```
5e1c6c4f8bbf: Pull complete
```

```
2da42ff3382c: Pull complete
```

```
86f9457966ab: Pull complete
```

```
896264e2a03c: Pull complete
```

```
Digest: sha256:0d753a7365274cef746b34dde9b4aaa27644f64e1567ed8f40ccd191ac4bd530
```

```
Status: Downloaded newer image for python:latest
```

```
docker.io/library/python:latest
```

```
avcoe@avcoe-HP-ProDesk-400-G1-SFF:~$ cd docker1
```

```
avcoe@avcoe-HP-ProDesk-400-G1-SFF:~/docker1$ docker build -t myubuntu .
```

```
[+] Building 33.0s (6/6) FINISHED
```

```
=> [internal] load .dockerignore
```

```
0.3s
```

```
=> => transferring context: 2B
```

```
0.0s
```

```
=> [internal] load build definition from Dockerfile
```

```
0.2s
```

```
=> => transferring dockerfile: 96B
```

```
0.0s
```

```
=> [internal] load metadata for docker.io/library/ubuntu:latest
```

```
5.0s
```

```
=> [1/2] FROM
```

```
docker.io/library/ubuntu@sha256:67211c14fa74f070d27cc59d69a7fa9aeff8e28ea118ef3babc295a0428a6d21 5.5s
```

```
=> => resolve
```

```
docker.io/library/ubuntu@sha256:67211c14fa74f070d27cc59d69a7fa9aeff8e28ea118ef3babc295a0428a6d21 0.2s
```

```
=> => sha256:67211c14fa74f070d27cc59d69a7fa9aeff8e28ea118ef3babc295a0428a6d21 1.13kB / 1.13kB 0.0s
```

```
=> => sha256:7a57c69fe1e9d5b97c5fe649849e79f2cfc3bf11d10bbd5218b4eb61716aeb6 424B / 424B 0.0s
```

```
=> => sha256:08d22c0ceb150ddeb2237c5fa3129c0183f3cc6f5eeb2e7aa4016da3ad02140a 2.30kB / 2.30kB 0.0s
```

```

=> => sha256:2ab09b027e7f3a0c2e8bb1944ac46de38cebab7145f0bd6effebfe5492c818b6
29.53MB / 29.53MB                                3.9s
=> => extracting
sha256:2ab09b027e7f3a0c2e8bb1944ac46de38cebab7145f0bd6effebfe5492c818b6
0.5s
=> [2/2] RUN apt update
21.4s
=> exporting to image                                0.6s
=> => exporting layers                                0.5s
=> => writing image
sha256:e609bfbec77d93b69ed7ca21f3012cf4efb1afd2aebadbe753a4f48c39f2d141
0.0s
=> => naming to docker.io/library/myubuntu
0.0s
avcoe@avcoe-HP-ProDesk-400-G1-SFF:~/docker1$ docker run myubuntu
hi this is avcoe
avcoe@avcoe-HP-ProDesk-400-G1-SFF:~/docker1$ docker run myubuntu
hi this is avcoe
avcoe@avcoe-HP-ProDesk-400-G1-SFF:~/docker1$ docker build -t myubuntu .
[+] Building 1.9s (6/6) FINISHED
=> [internal] load build definition from Dockerfile
0.2s
=> => transferring dockerfile: 96B
0.0s
=> [internal] load .dockerignore
0.3s
=> => transferring context: 2B
0.0s
=> [internal] load metadata for docker.io/library/ubuntu:latest
1.5s
=> [1/2] FROM
docker.io/library/ubuntu@sha256:67211c14fa74f070d27cc59d69a7fa9aeff8e28ea118ef3babc295a0
428a6d21                                0.0s
=> CACHED [2/2] RUN apt update
0.0s
=> exporting to image                                0.1s
=> => exporting layers                                0.0s
=> => writing image
sha256:ca0d955ce0680217457ec5e60c243088e4b9f31dc7458cf357d3518d27ea707c
0.1s
=> => naming to docker.io/library/myubuntu
0.0s
avcoe@avcoe-HP-ProDesk-400-G1-SFF:~/docker1$ docker run myubuntu
Hi this is avcoe
avcoe@avcoe-HP-ProDesk-400-G1-SFF:~/docker1$

```