

Problem 1

■ Run the container hello-world

```
[reem@localhost ~Sun Apr 13 15:17:06]$ docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
e6590344b1a5: Pull complete
Digest: sha256:424f1f86cdf501deb591ace8d14d2f40272617b51b374915a87a2886b2025ece
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

```
[reem@localhost ~Sun Apr 13 15:17:20]$ docker ps -a
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
82d5bdf2f358	hello-world	"/hello"	15 seconds ago	Exited (0) 15 seconds ago		stupefied_germain
4d4c3bec2786	aded1e1a5b37	"/bin/sh"	50 minutes ago	Up 50 minutes		mo
c0f4e8da7ca7	nginx	"/docker-entrypoint..."	About an hour ago	Exited (0) About an hour ago		sleepy_robinson
61fc20ca69e8	ubuntu	"sleep infinity"	3 hours ago	Exited (137) About an hour ago		nostalgic_morse
1ff282962c6e	ubuntu	"sleep 5"	3 hours ago	Exited (0) 53 minutes ago		silly_gates
f36a74c70ca5	ubuntu	"sleep 5"	3 hours ago	Exited (0) 3 hours ago		affectionate_hellman

■ Start the stopped container

```
[reem@localhost ~Sun Apr 13 15:23:04]$ docker start 82d5bdf2f358
82d5bdf2f358
```

■ Remove the container

```
[reem@localhost ~Sun Apr 13 15:24:56]$ docker rm 82d5bdf2f358
82d5bdf2f358
[reem@localhost ~Sun Apr 13 15:25:27]$ docker ps -a
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
4d4c3bec2786	aded1e1a5b37	"/bin/sh"	50 minutes ago	Up 50 minutes		mo
c0f4e8da7ca7	nginx	"/docker-entrypoint..."	About an hour ago	Exited (0) About an hour ago		sleepy_robinson
61fc20ca69e8	ubuntu	"sleep infinity"	3 hours ago	Exited (137) About an hour ago		nostalgic_morse
1ff282962c6e	ubuntu	"sleep 5"	3 hours ago	Exited (0) About an hour ago		silly_gates
f36a74c70ca5	ubuntu	"sleep 5"	3 hours ago	Exited (0) 3 hours ago		affectionate_hellman

■ Remove the image

```
[reem@localhost ~Sun Apr 13 15:25:29]$ docker rmi hello-world
Untagged: hello-world:latest
Untagged: hello-world@sha256:424f1f86cdf501deb591ace8d14d2f40272617b51b374915a87a2886b2025ece
Deleted: sha256:74cc54e27dc41bb10dc4b2226072d469509f2f22f1a3ce74f4a59661a1d44602
Deleted: sha256:63a41026379f4391a306242eb0b9f26dc3550d863b7fdbb97d899f6eb89efe72
[reem@localhost ~Sun Apr 13 15:25:47]$
```