# **Getting Started**

## The command you just ran

Congratulations! You have started the container for this tutorial! Let's first explain the command that you just ran. In case you forgot, here's the command:

```
docker run -d -p 80:80 docker/getting-started
```

You'll notice a few flags being used. Here's some more info on them:

- -d run the container in detached mode (in the background)
- -p 80:80 map port 80 of the host to port 80 in the container
- docker/getting-started the image to use

#### f Pro tip

You can combine single character flags to shorten the full command. As an example, the command above could be written as:

docker run -dp 80:80 docker/getting-started

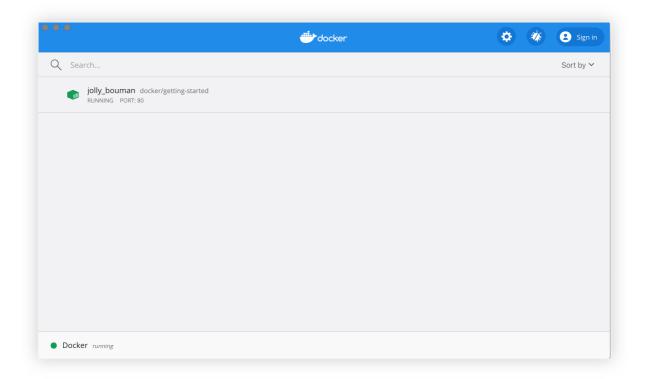
### The Docker Dashboard

Before going too far, we want to highlight the Docker Dashboard, which gives you a quick view of the containers running on your machine. It gives you quick access to container logs, lets you get a shell inside the container, and lets you easily manage container lifecycle (stop, remove, etc.).

To access the dashboard, follow the instructions in the Docker Desktop manual [https://docs.docker.com/desktop/]. If you open the dashboard now, you will see

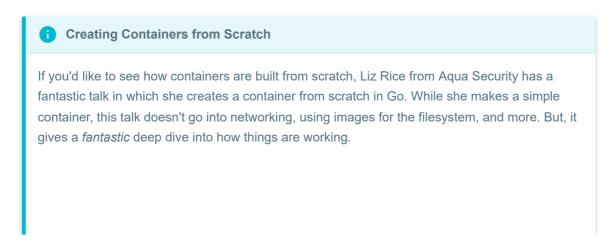
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this tutorial running! The container name ( jolly\_bouman below) is a randomly created name. So, you'll most likely have a different name.



#### What is a container?

Now that you've run a container, what *is* a container? Simply put, a container is simply another process on your machine that has been isolated from all other processes on the host machine. That isolation leverages kernel namespaces and cgroups [https://medium.com/@saschagrunert/demystifying-containers-parti-kernel-space-2c53d6979504], features that have been in Linux for a long time. Docker has worked to make these capabilities approachable and easy to use.



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### What is a container image?

When running a container, it uses an isolated filesystem. This custom filesystem is provided by a **container image**. Since the image contains the container's filesystem, it must contain everything needed to run an application - all dependencies, configuration, scripts, binaries, etc. The image also contains other configuration for the container, such as environment variables, a default command to run, and other metadata.

We'll dive deeper into images later on, covering topics such as layering, best practices, and more.



Info

If you're familiar with <code>chroot</code>, think of a container as an extended version of <code>chroot</code>. The filesystem is simply coming from the image. But, a container adds additional isolation not available when simply using chroot.

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