

# Deploying a Containerized App

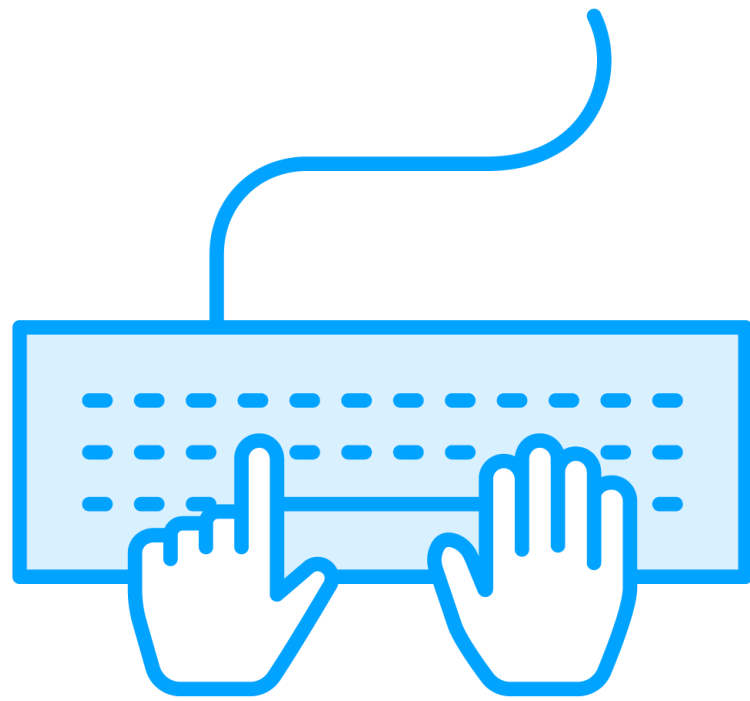


**Nigel Poulton**

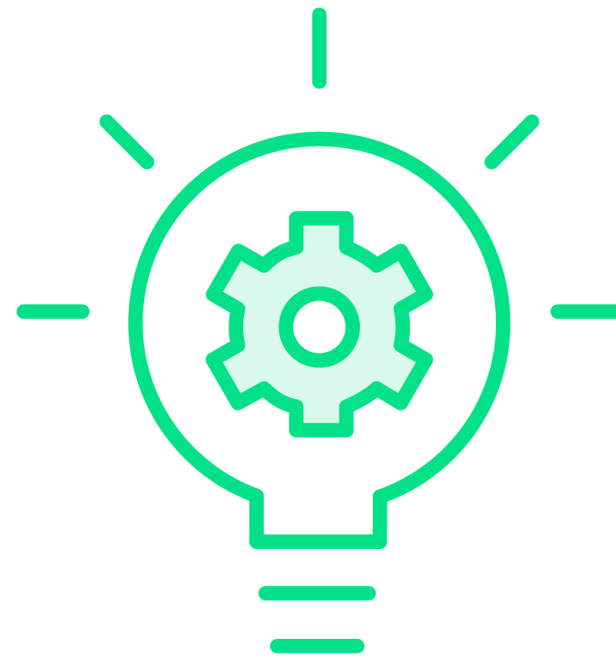
Author & Trainer

@nigelpoulton | [www.nigelpoulton.com](http://www.nigelpoulton.com)

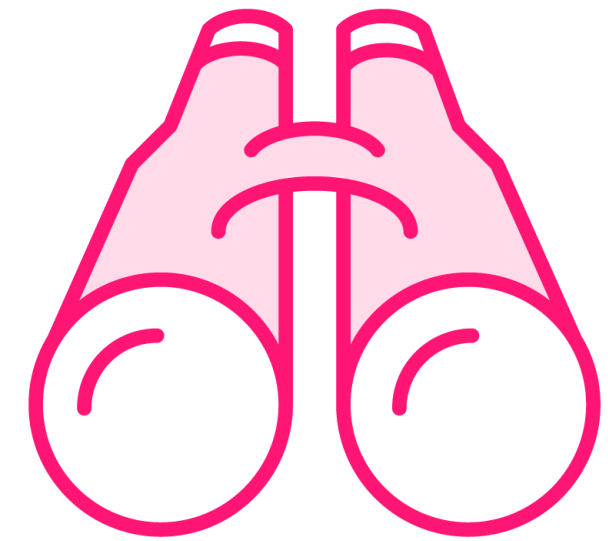




**Hands-on**



**Lightbulb Moment**



**Holistic View**



**Follow Along  
OR  
Just Watch**

**Developers  
AND  
Operations**



**The best developers  
understand ops**

**&**

**The best ops  
understand developers**



# Overview/ Summary



## Warp Speed Overview

### Detailed Look

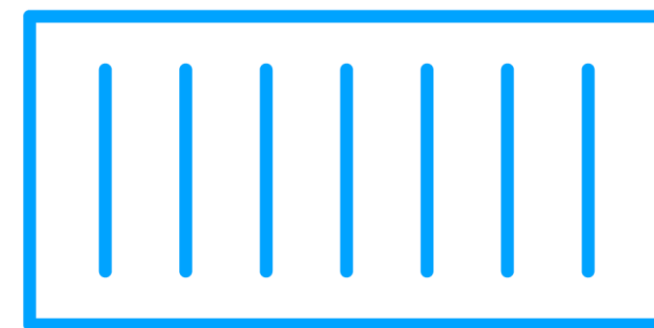
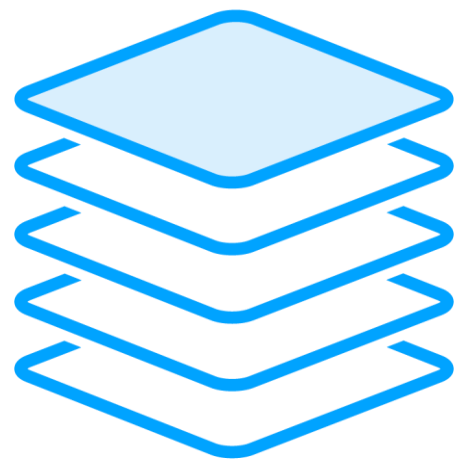
- Containerizing an App
- Hosting on a Registry
- Running a Containerized App
- Managing a Containerized App





# Warp Speed Overview







**Up Next:**

# **Containerizing an App**

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# Containerizing an App



Metadata:  
App = node app.js

Dependencies

Copy app to  
/usr/src/app

Create /usr/src/app

node:current-alpine





# Next Steps with Docker...

**Docker Deep Dive**

**Nigel Poulton**



**Up Next:**

# **Hosting on a Registry**

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# Hosting on a Registry



**Lots of Registries Exist**

**Used to Share Container Images**





# Open Container Initiative (OCI)

- Image spec
- Runtime spec
- Distribution spec (registries)



The diagram illustrates the components of a Docker image name. The text 'nigelpoulton/gsd:2023' is shown in a large pink font. Brackets are used to group parts of the string: a long bracket under 'nigelpoulton' is labeled 'Docker Hub ID'; a bracket over 'gsd' is labeled 'Repo'; and a bracket over ':2023' is labeled 'Image'.

Repo Image

nigelpoulton/gsd:2023

Docker Hub ID



**Up Next:**

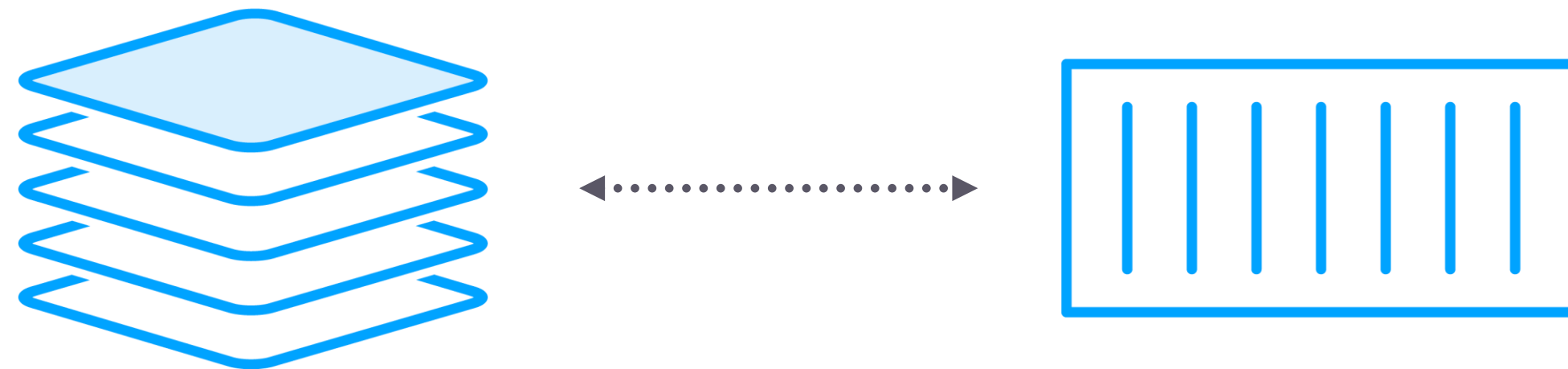
# **Running a Containerized App**

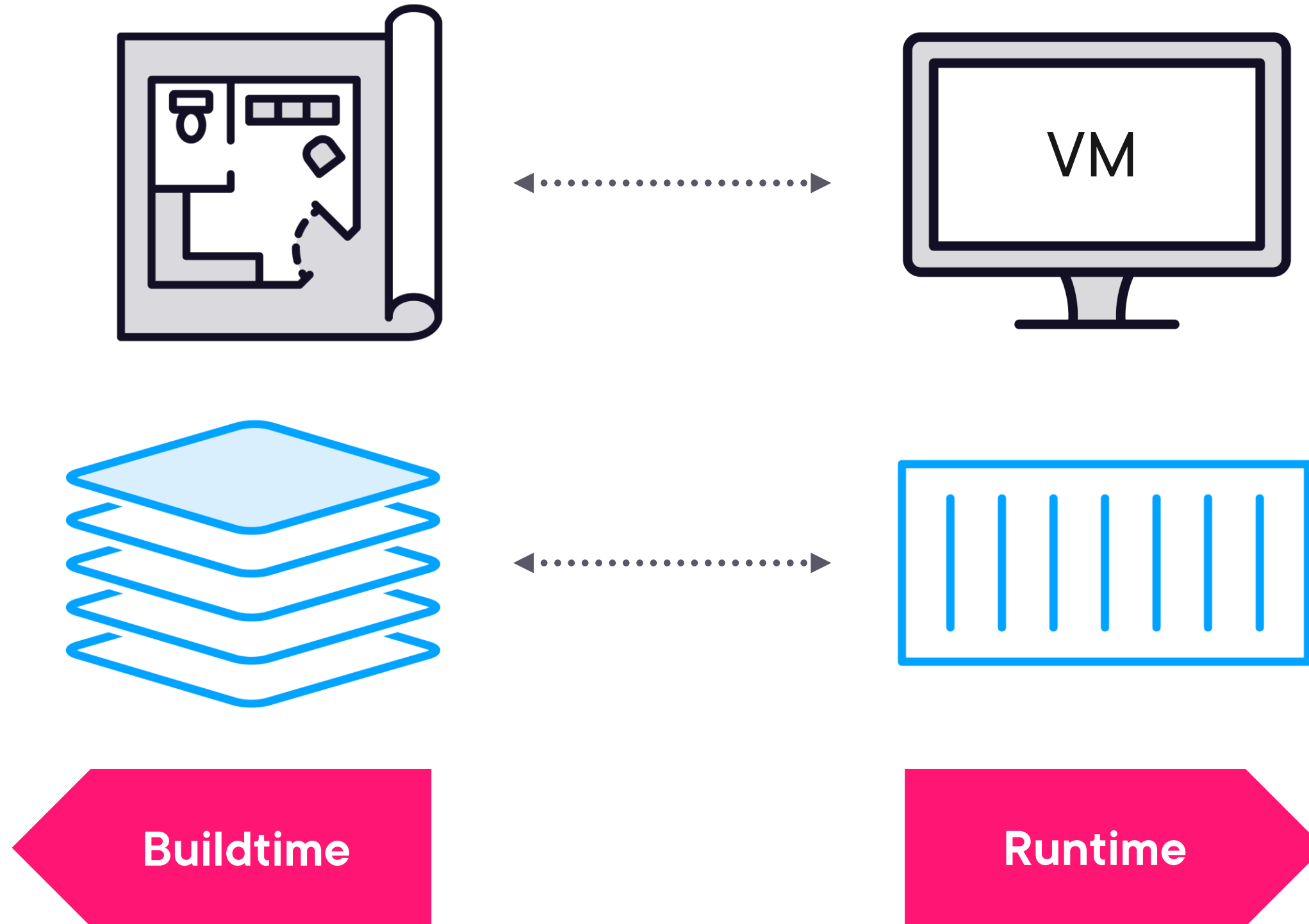
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# Running a Containerized App









**Up Next:**

# **Managing a Containerized App**

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# Managing a Containerized App



# Containerized

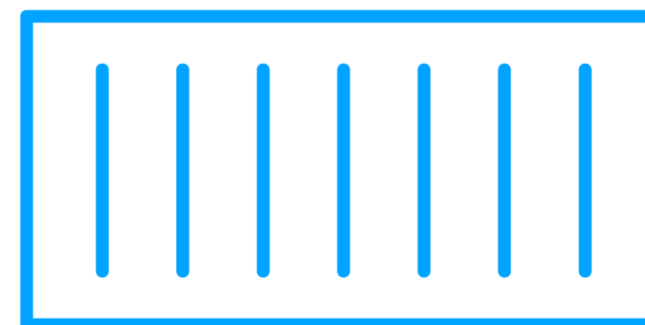
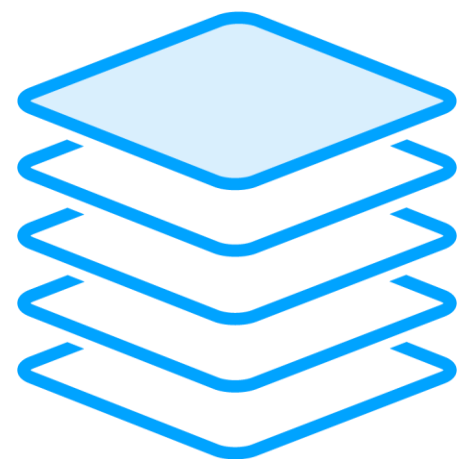
An application running inside a container.





# Recap



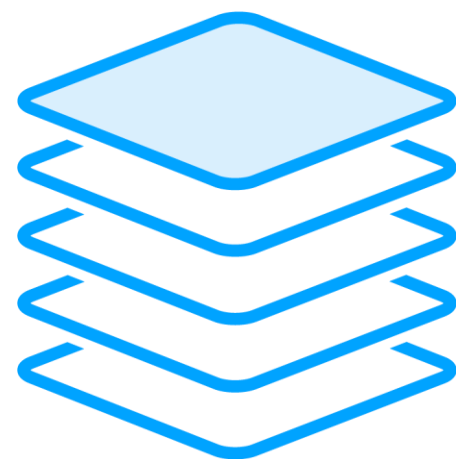


\$ docker image build

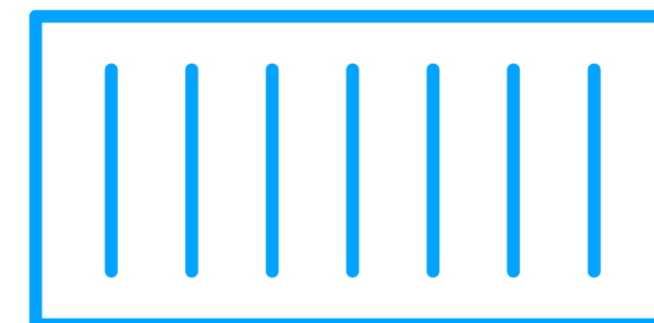
\$ docker image push

\$ docker container run





Registry



```
$ docker image build
```

```
$ docker image push
```

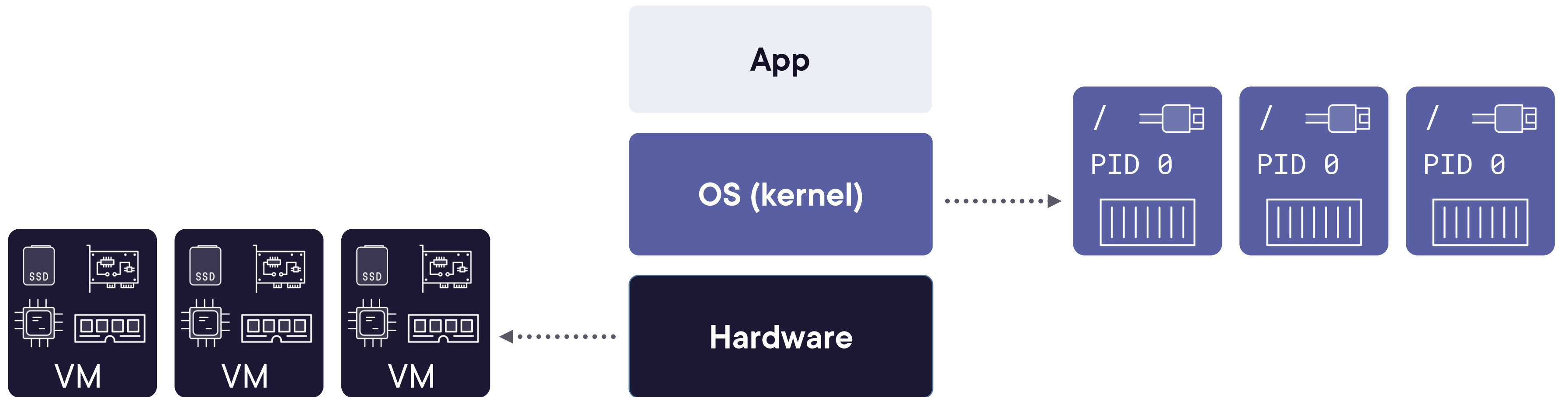
```
$ docker container run  
$ docker container stop  
$ docker container start  
$ docker container rm
```

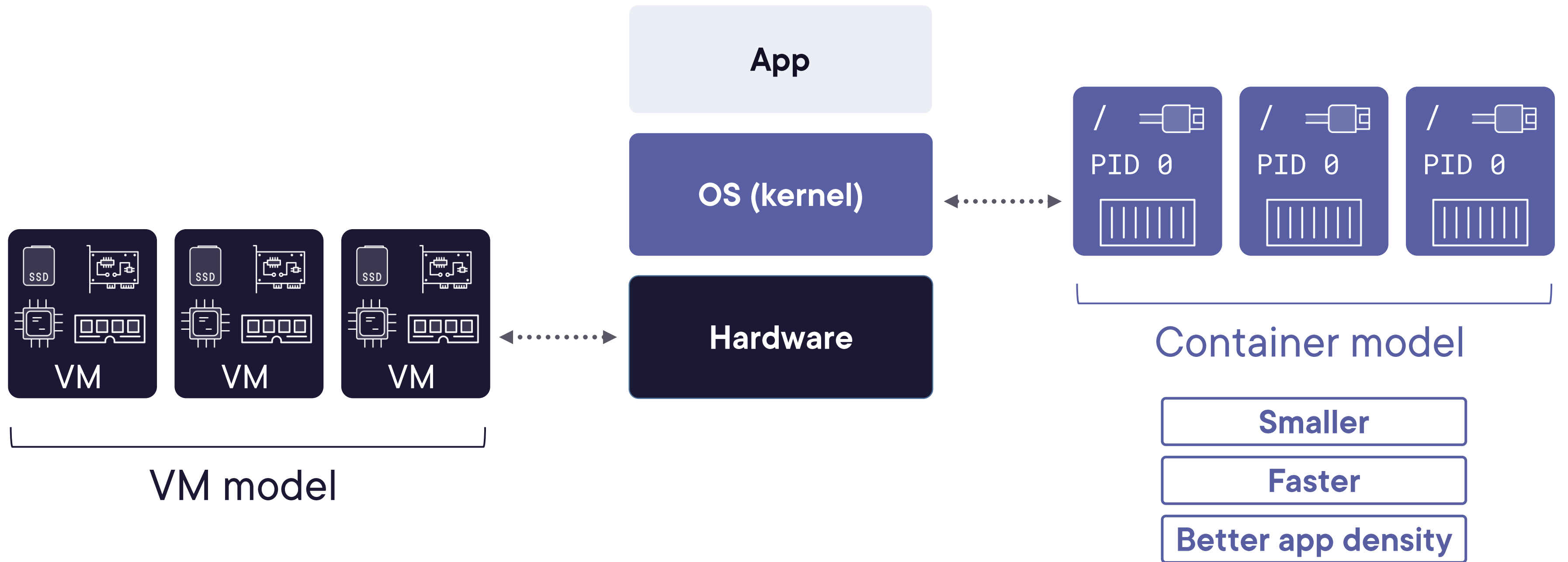




**Containers are the future.**







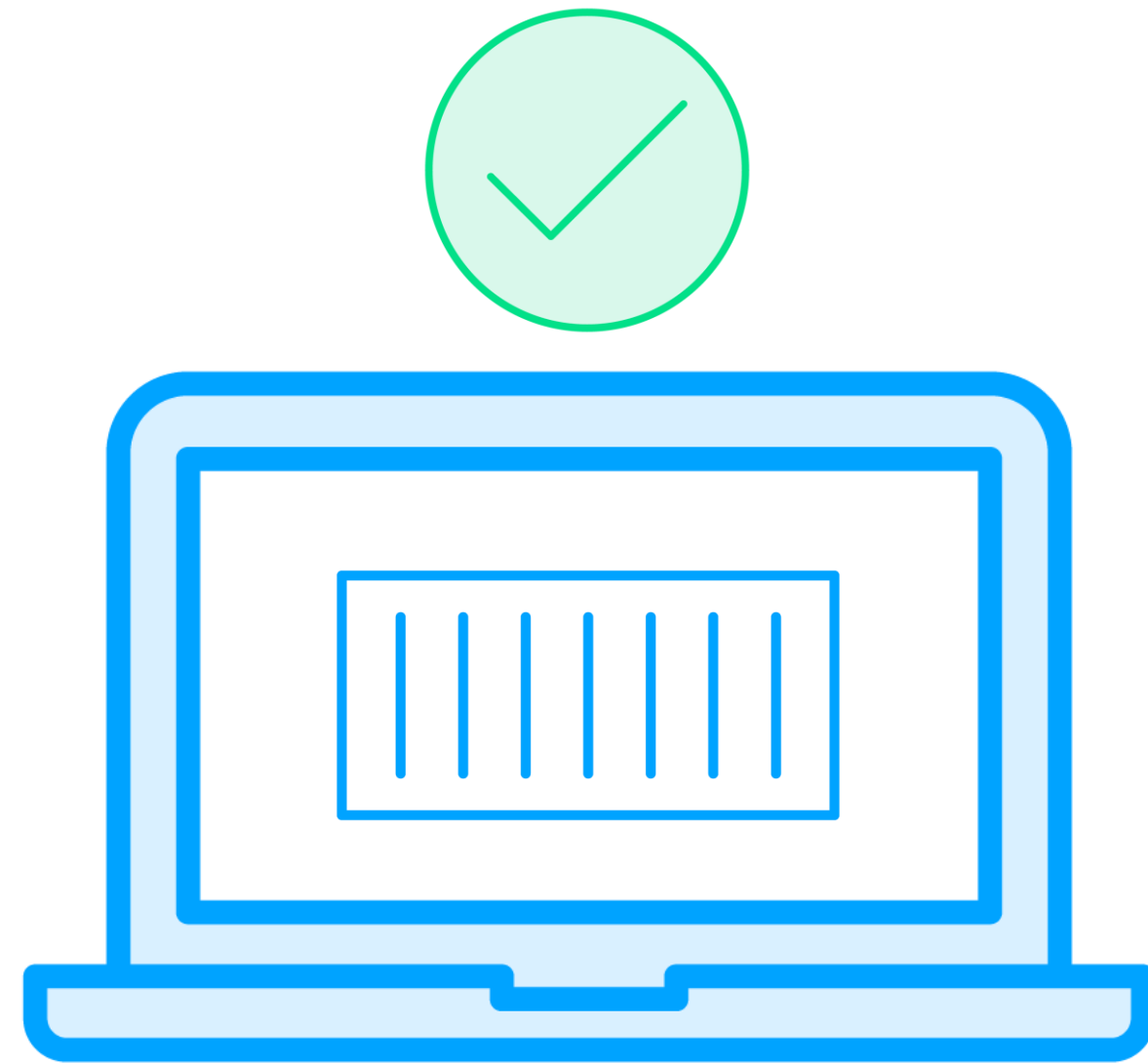
# New Tools to Manage Containers

Docker Swarm

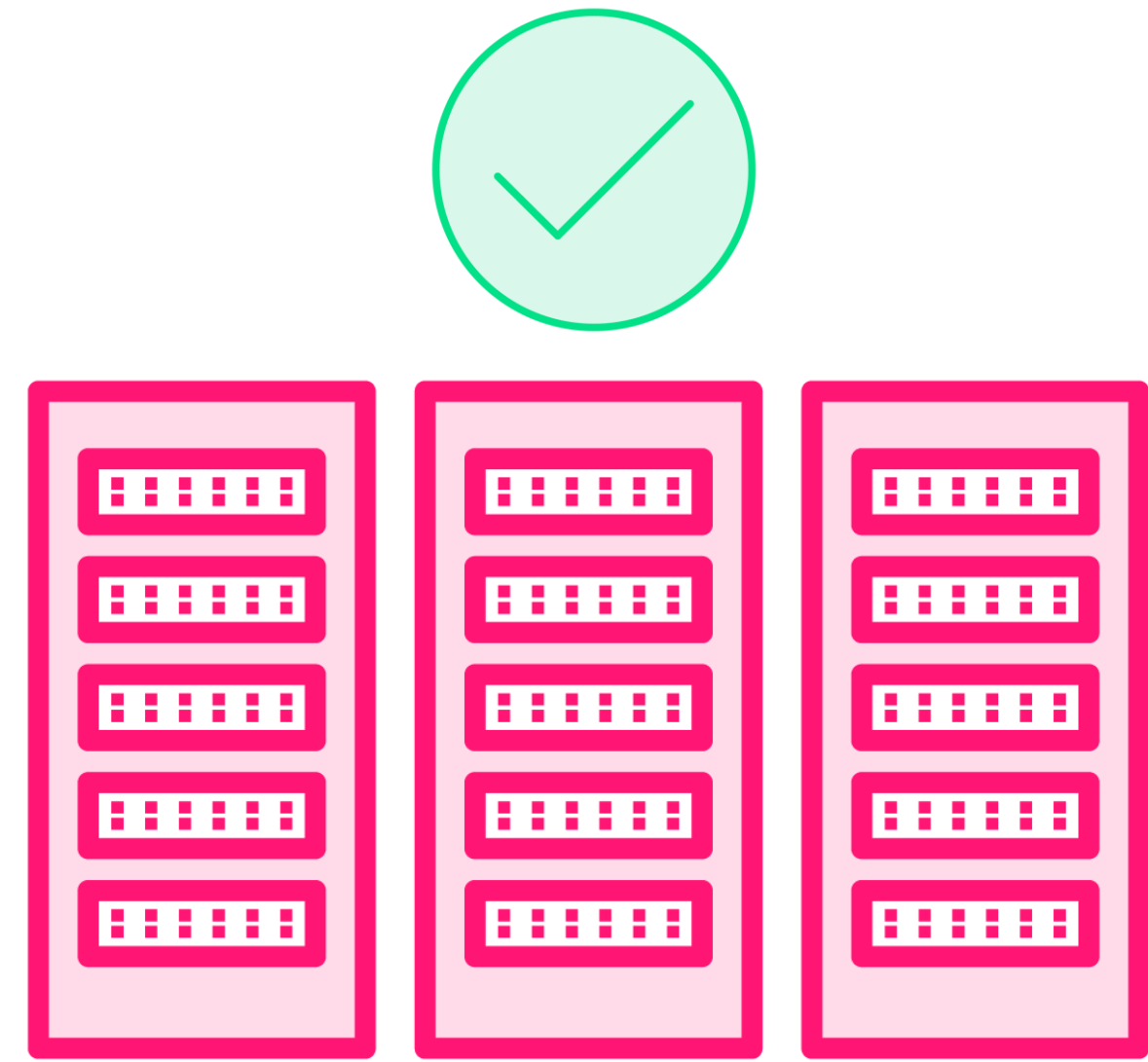
Kubernetes

Lots of others...





**Works on Laptop**



**Works in Production**



**Up Next:**

# **Microservices and the Real World**

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