# Docker for Web Developers

Why Use Docker Containers as a Developer?



**Dan Wahlin**Wahlin Consulting

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### Course Overview

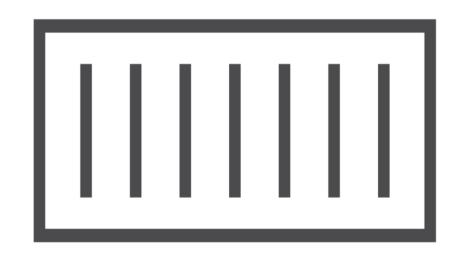


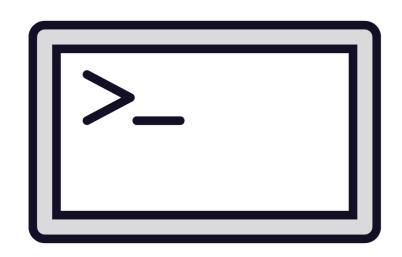
Why Use Docker Containers as a Developer? **Setting Up Your Dev Environment** Hook Your Source Code Into a Container **Building Custom Images with Dockerfile Communicating Between Containers** Managing Containers with Docker Compose **Moving to Kubernetes** 



## Pre-requisites





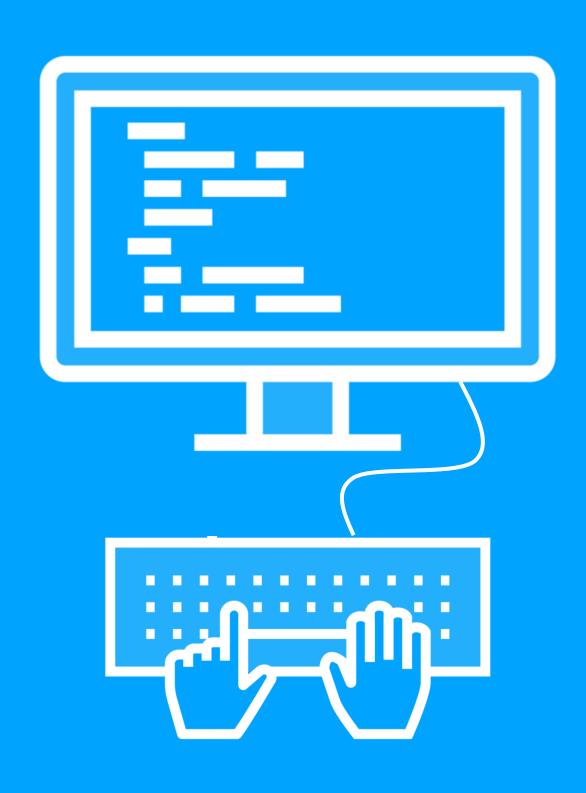


Cloud
Basic experience

**Containers Basic experience** 

Command Line
Hands-on experience





# GitHub Repo

https://github.com/DanWahlin/ Docker-for-Web-Developers





@danwahlin

- Building and Running Your First Docker App
- Docker for Web Developers
- Containerizing Angular Applications with Docker
- Kubernetes for Developers: Core Concepts
- Kubernetes for Developers: Deploying Your Code
- Kubernetes for Developers: Moving from Docker Compose to Kubernetes
- Certified Kubernetes Application Developer:
  Application Deployment
- Certified Kubernetes Application Developer:
  Application Observability and Maintenance

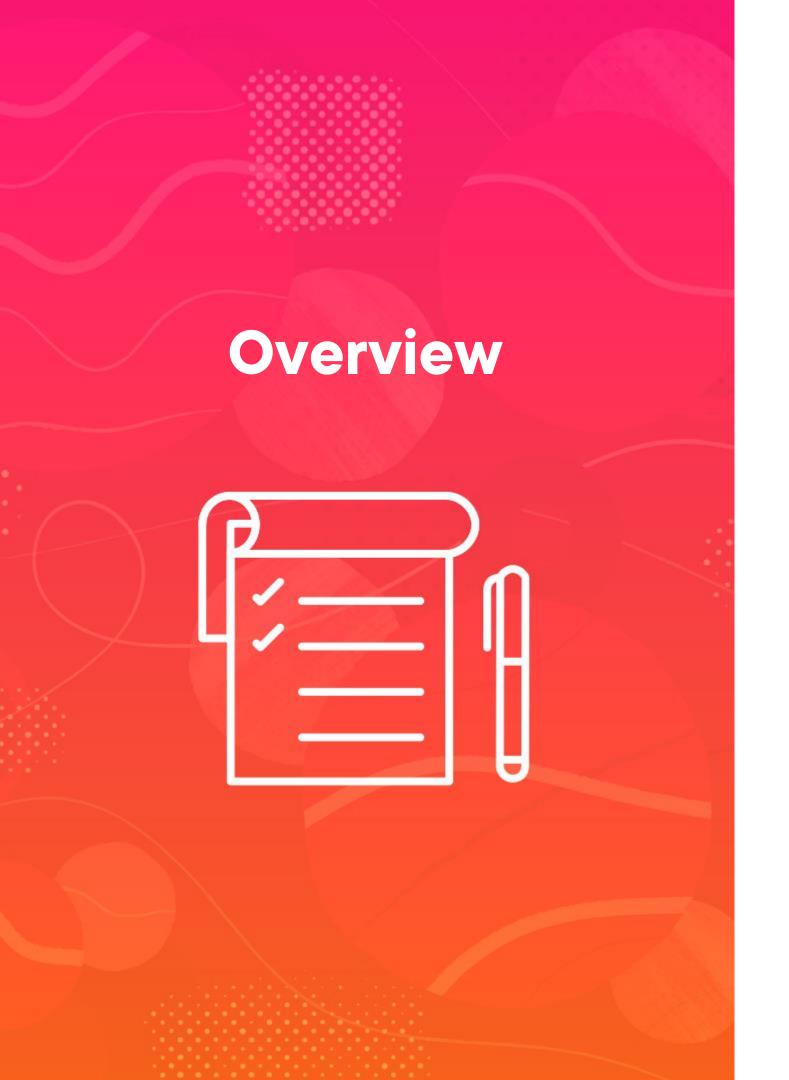
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What is Docker?

**Docker Benefits** 

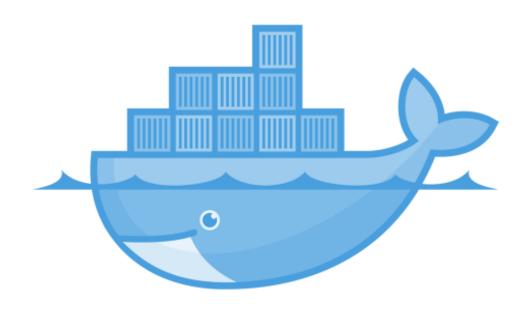
**Docker Containers in Action** 



# What is Docker?



### What is Docker?



Lightweight, open, secure platform
Simplify building, shipping, running apps
Shipping container system for code

Runs natively on Linux or Windows Server

Runs on Windows, Mac, or Linux development machines

Relies on images and containers

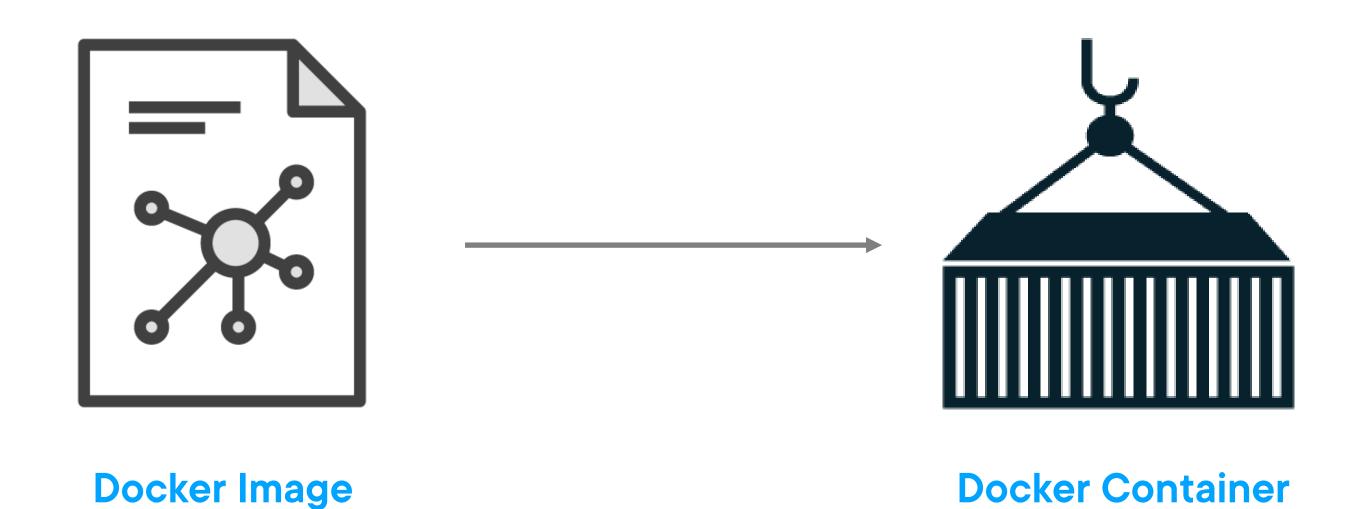




# **Image**

A read-only template composed of layered filesystems used to share common files and create Docker container instances.

# The Role of Images and Containers

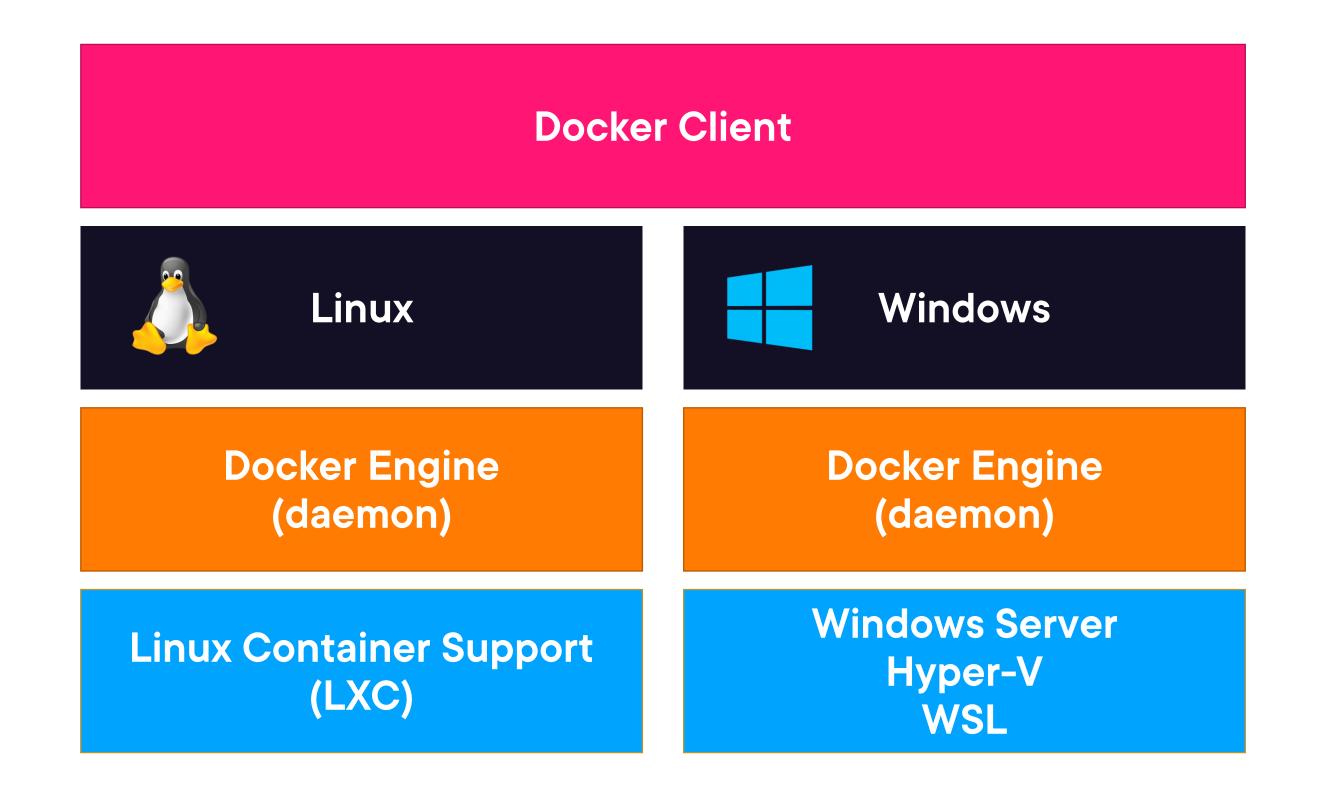




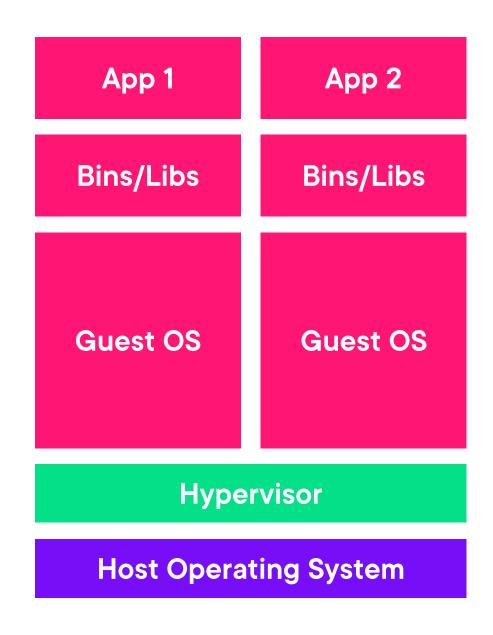
# Container

An isolated and secured shipping container created from an image that can be run, started, stopped, moved and deleted.

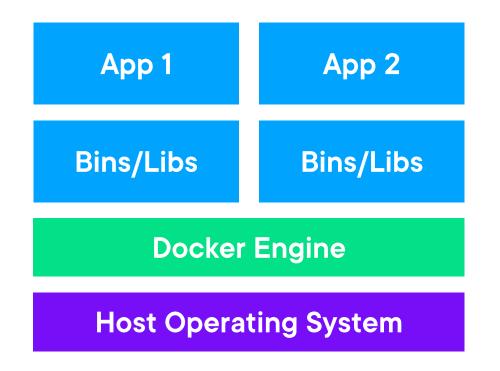
### Where Does Docker Run?



### **Docker Containers Versus Virtual Machines**



**Virtual Machines** 



**Docker Containers** 



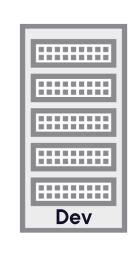
# Docker Benefits



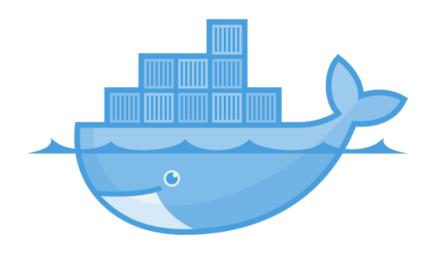
### **Docker Benefits**











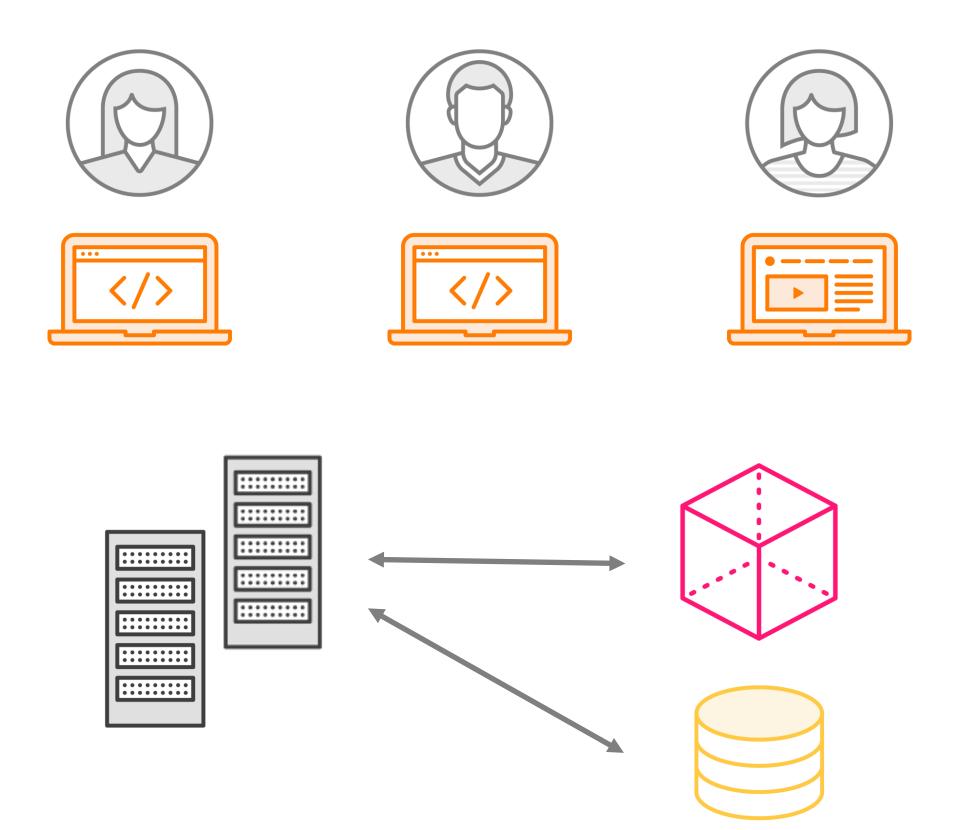
Accelerate Developer Onboarding **Eliminate App Conflicts** 

**Environment Consistency** 

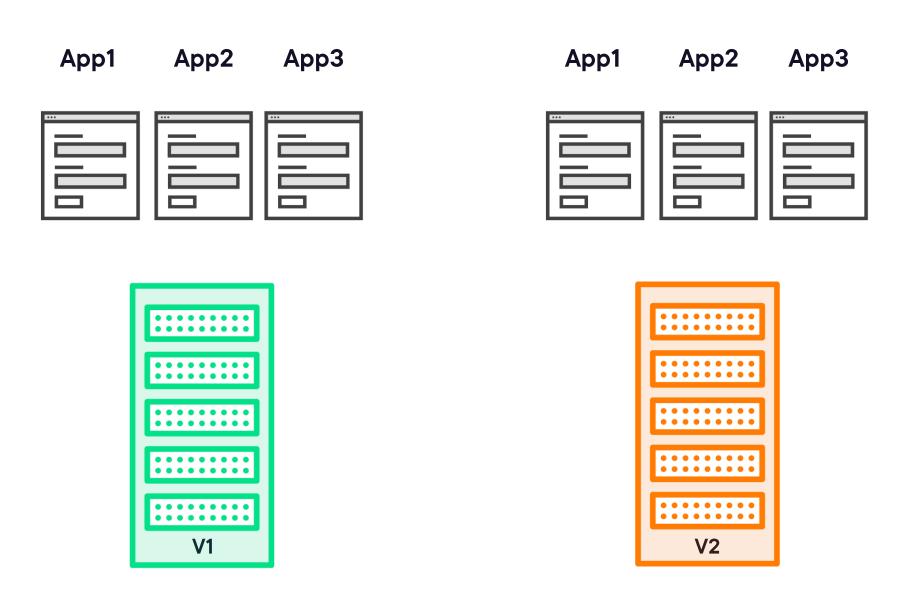
**Ship Software Faster** 



# Accelerate Developer Onboarding



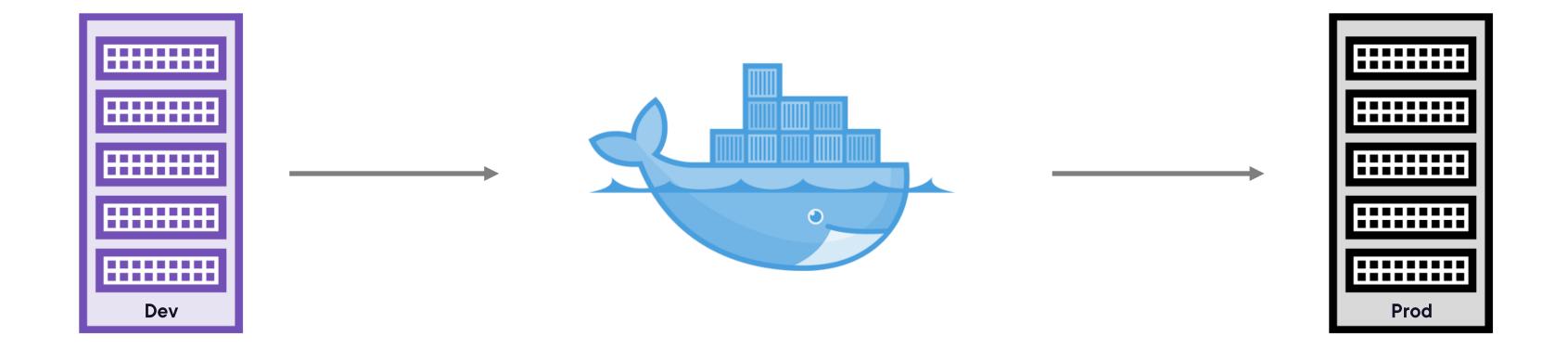
# **Eliminate App Conflicts**



## **Environment Consistency**



# **Ship Software Faster**



# Docker Containers in Action



### Summary



Docker simplifies building, shipping and running apps

Runs natively on Linux and Windows Server

Docker containers are NOT the same as using Virtual Machines

### Key benefits to Web Developers:

- Accelerate developer onboarding
- Simplify working with multiple apps
- Consistency between environments
- Ship faster!

**Up Next:** 

# Setting Up Your Dev Environment

