

# Docker for Web Developers

---

WHY USE DOCKER AS A DEVELOPER?



**Dan Wahlin**

PRESIDENT - WAHLIN CONSULTING

@danwahlin [www.codewithdan.com](http://www.codewithdan.com)



# Placeholder

Promo Video Demo  
of Parts of Course Goes Here

I'll talk over the video  
Created after the course is done



# Course Agenda

Why Use Docker as a Developer?

Setting Up Your Dev Environment  
with Docker Toolbox

Using Docker Client in  
Your Dev Environment

Hooking Your Source Code  
Into a Container

Linking Docker Containers

Managing Multiple Containers  
with Docker Compose

Deploying Your Containers to Azure

Reviewing the Case for Docker



# Why Use Docker as a Developer?

---



**Dan Wahlin**

WAHLIN CONSULTING

@danwahlin [www.codewithdan.com](http://www.codewithdan.com)



# Module Agenda

What is Docker?

Docker Benefits  
(for Web Developers)

Docker Tools

Docker in Action

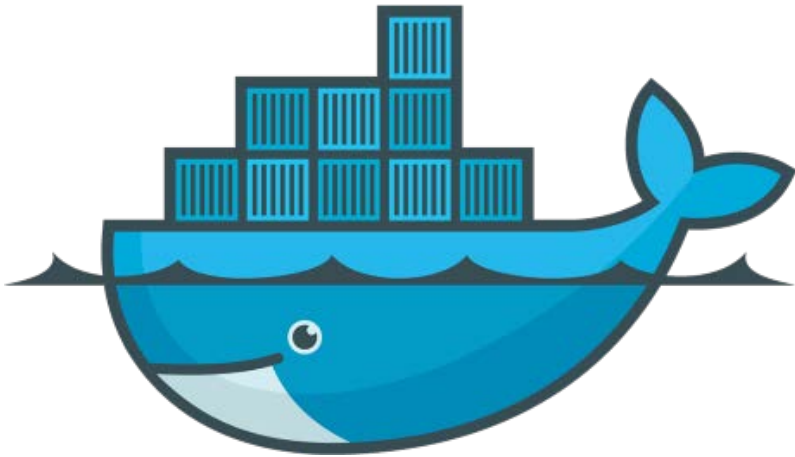


# What Is Docker?

---



## 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 or Mac Development machines (with a virtual machine)

Relies on "images" and "containers"



# The Role of Images and Containers



**Docker Image**

Example: Ubuntu with Node.js and  
Application Code



**Docker Container**

Created by using an image. Runs  
your application.





# Image

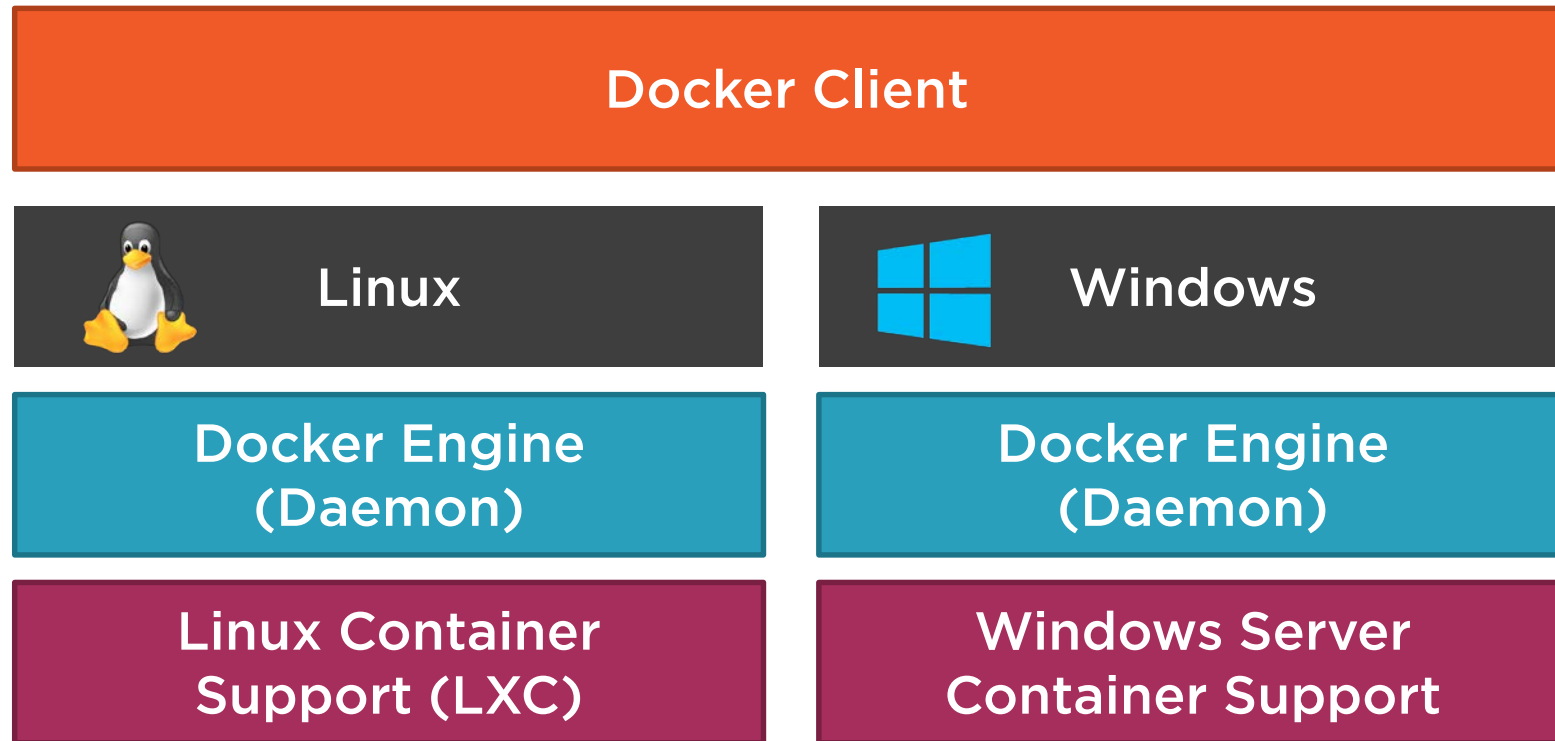
A **read-only template** composed of layered filesystems used to share common files and create Docker container instances.



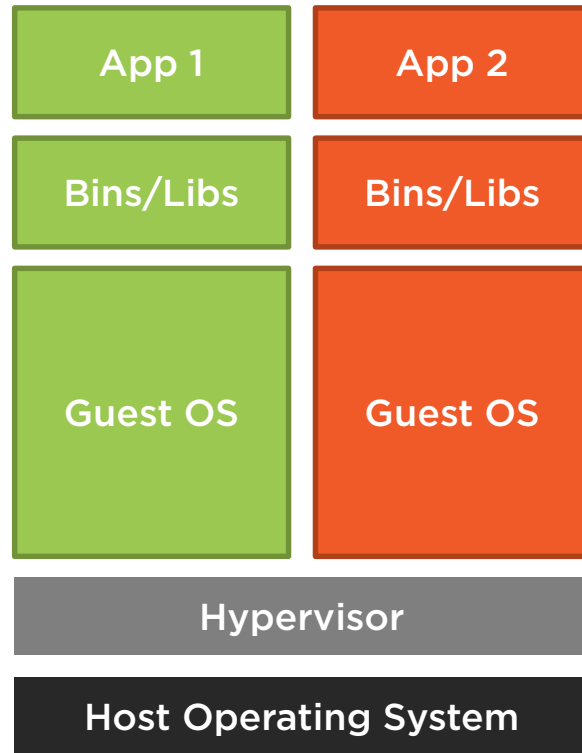
# Container

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

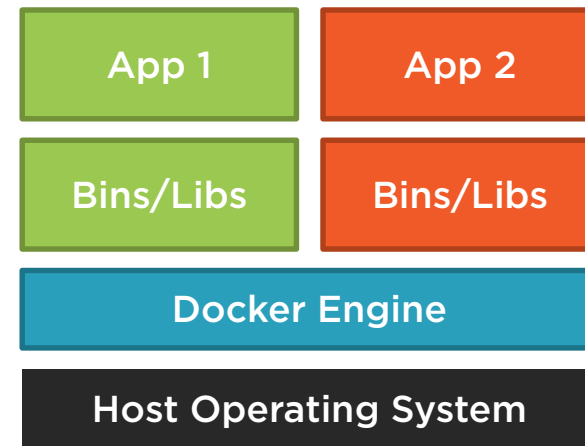
# Where Does Docker Run?



# Docker Containers Versus Virtual Machines



Virtual Machines



Docker Containers



# Docker Benefits (for Web Developers)

---

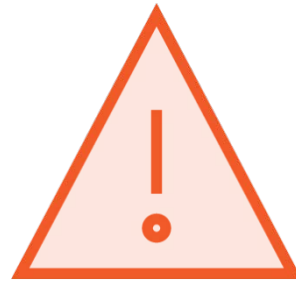


# Docker Benefits

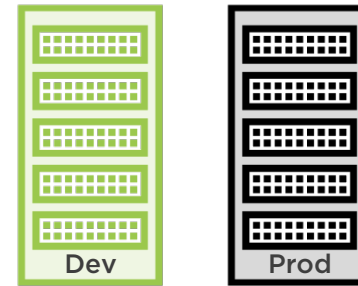
(for Web Developers)



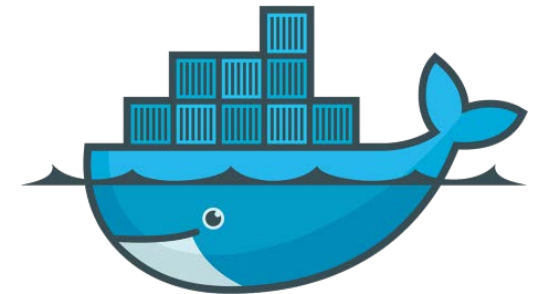
**Accelerate  
Developer  
Onboarding**



**Eliminate App  
Conflicts**



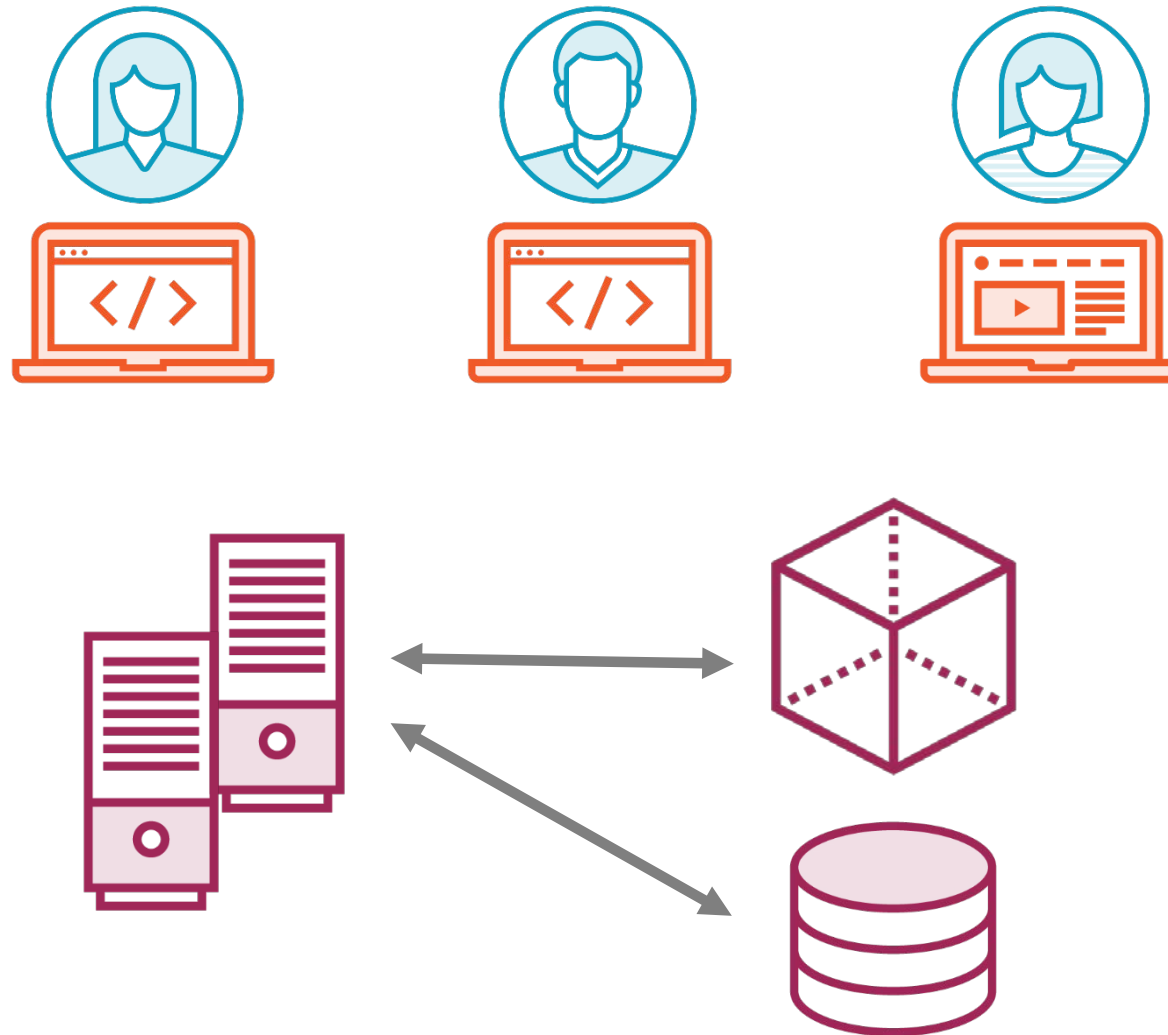
**Environment  
Consistency**



**Ship Software  
Faster**



# Accelerate Developer Onboarding



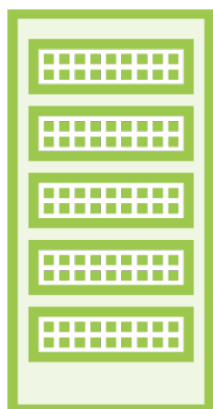
# Eliminate App Conflicts



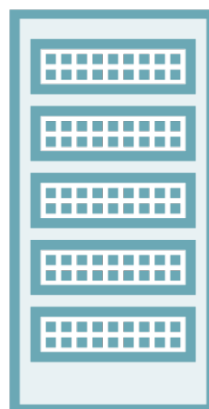


# Environment Consistency

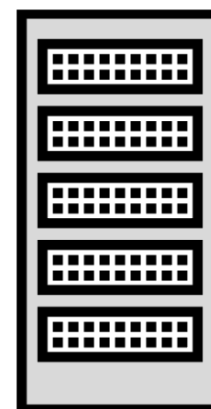
Development



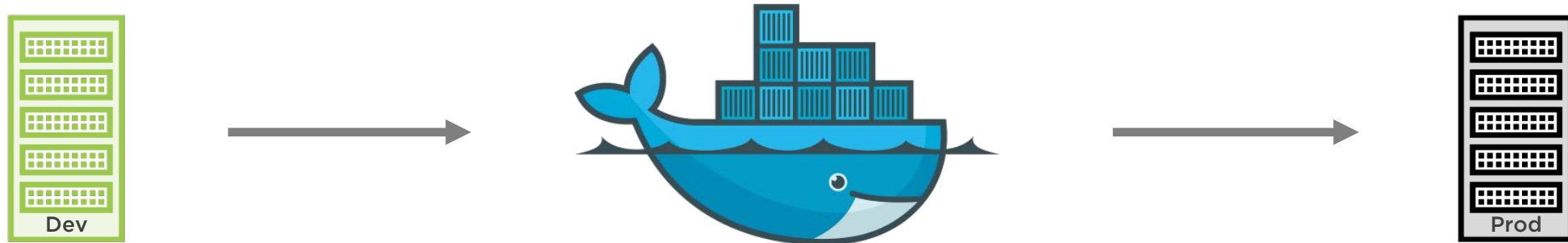
Staging



Production



# Ship Software Faster



# Docker Tools

---



## Docker Tools



## Docker Toolbox

Provides image and container tools

Virtual Machine (for Windows/Mac)

Works on Windows, Mac, Linux

<https://www.docker.com/docker-toolbox>



# Docker Toolbox Tools

Docker Client

Docker Kitematic

Docker Machine

VirtualBox

Docker Compose



# Docker in Action

---



# Summary



**Docker simplifies building, shipping and running apps**

**Runs natively on Linux and Windows Server**

**Docker is 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!

