

# Making Sense, and Use, of Containers

Matt Milner

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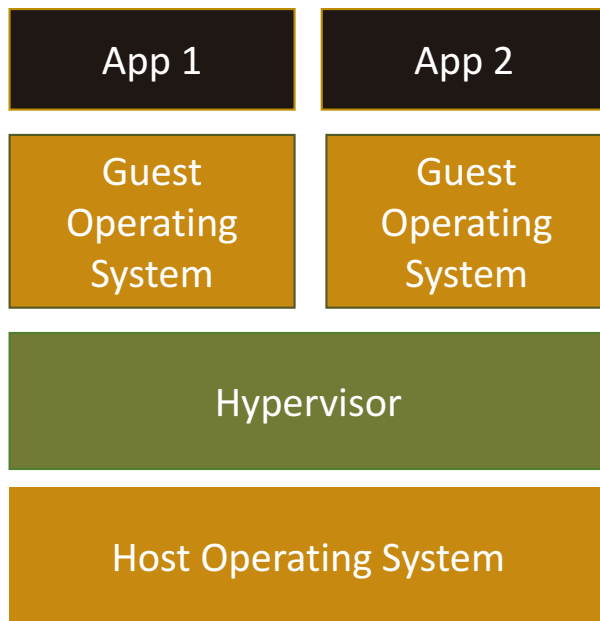
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# Containers – Not Just for Leftovers

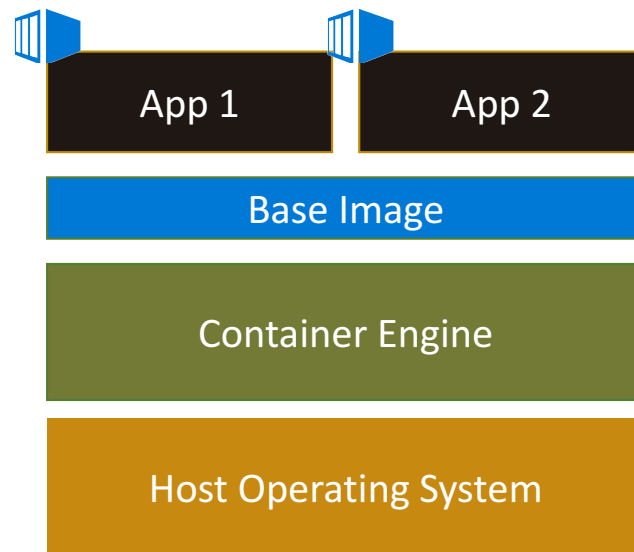


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# Containers at a Glance



Virtual Machine Model



Container Model






# Container Images



- Base image is the OS
- Layer images on top of that image
- Package your application as an image
- Your application is the top image

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A *container* is a running instance of an *image*.

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# How Does Docker Fit In?

Docker container format

Docker provides a container platform

- Runtime
- Governance
- Security
- Orchestration



# Create an Image

Docker File  
defines the  
image

- Contents
- Port mappings
- Commands

Use Docker  
tools to  
build the  
image

- Command Line
- CI/CD friendly



I Have an Image – Now What?



Run an image  
as an instance

Push an image  
to a registry







# Why Containers?

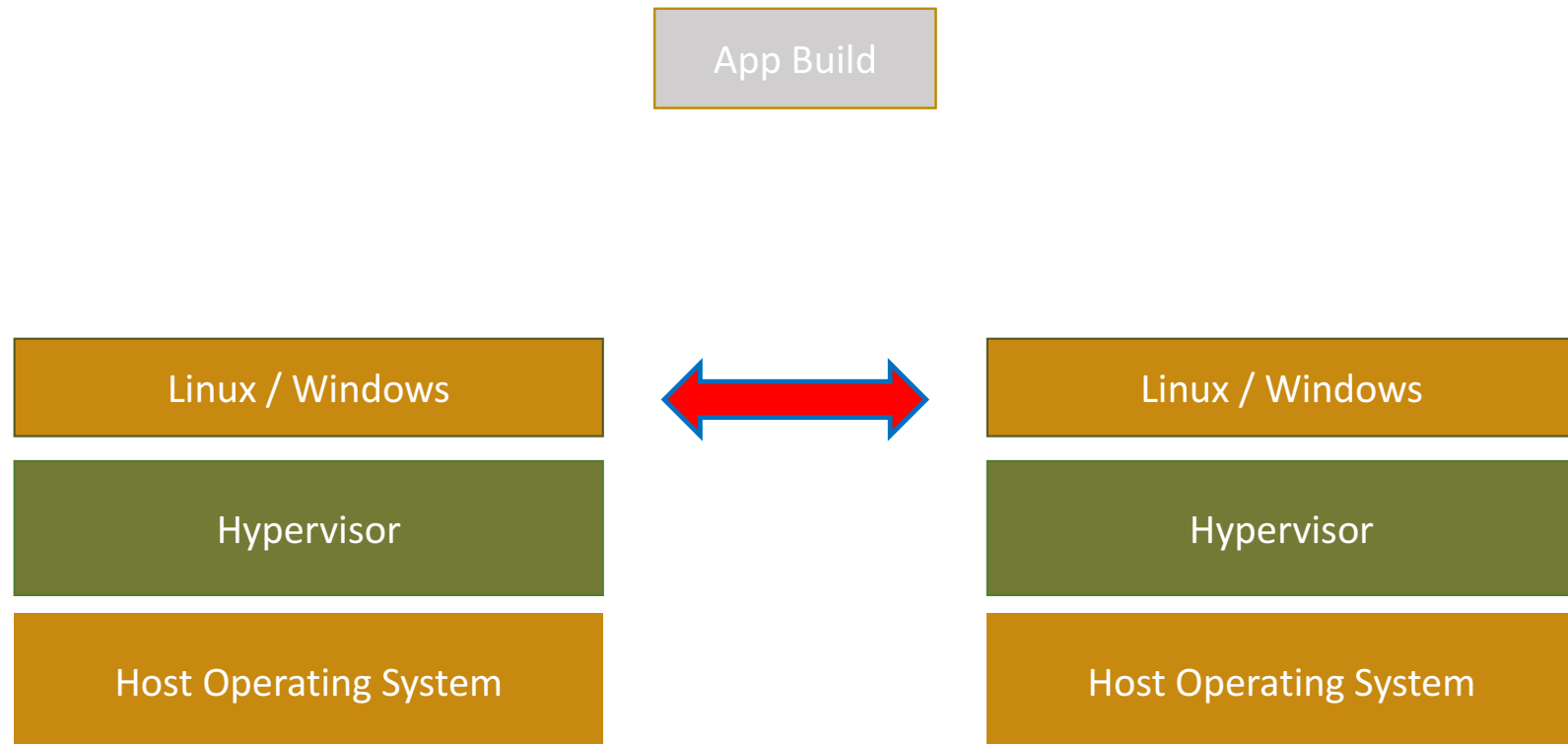
Lightweight  
hosting of  
applications

Consistent,  
repeatable  
deployment

Removes  
inconsistent  
environments



# App Deployment Without Containers



# App Deployment With Containers

App Server Image

Container Engine

Host Operating System

Container Engine

Host Operating System



## Organizing Containers

Multiple instances

Dependencies

Communication between instances



Orchestration



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Questions?



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