CLOUD COMPUTING

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Platform as a Service

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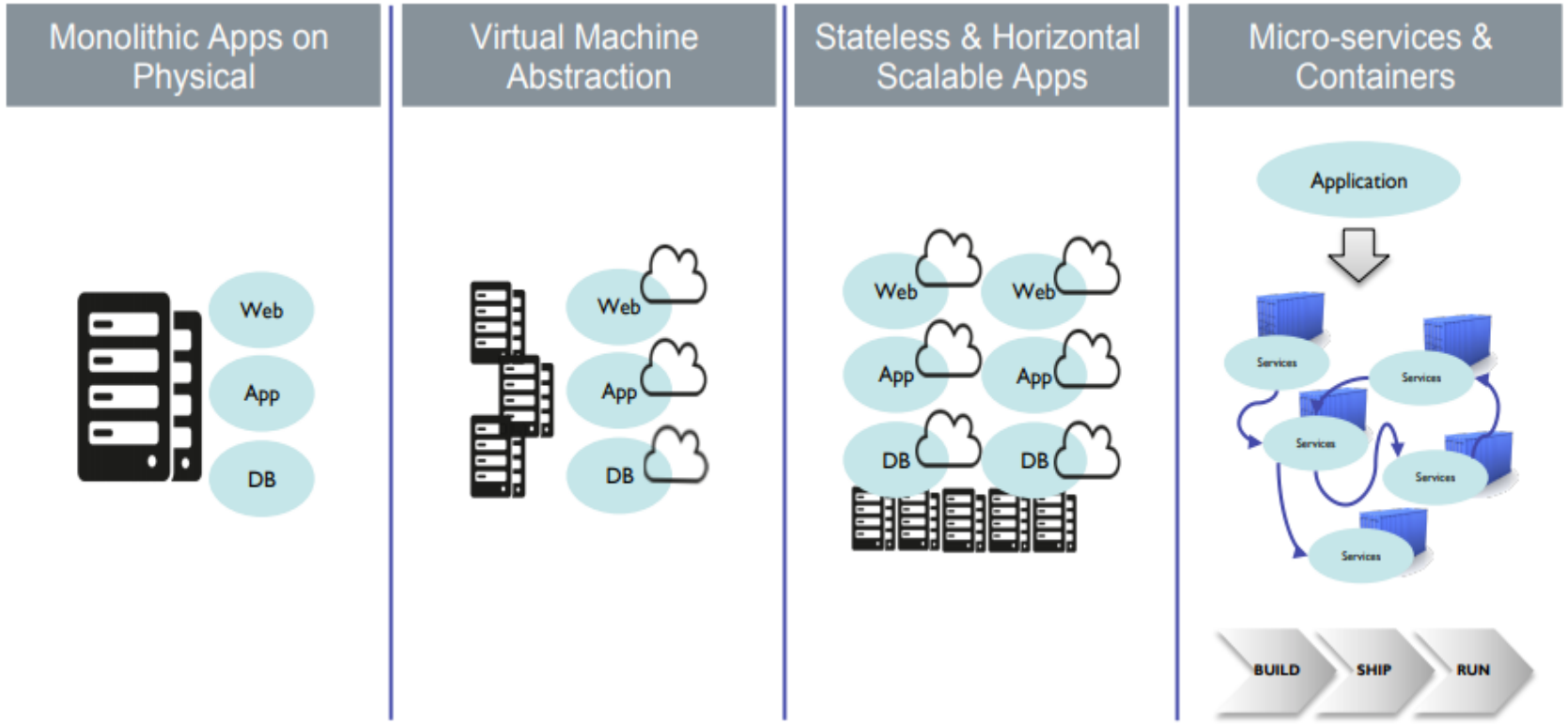
Container Service



Source: https://www.snia.org/sites/default/files/CSI/SNIA_Intro_to_Containers_Container_Storage_and_Docker_Final.pdf

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Container Service

- A light-weight OS-level virtualization method
- Standalone piece of executable software – not a VM
- Virtualization of application instead of hardware
- Runs on the top of core OS
- Doesn’t require dedicated CPU, memory, Network – managed by core OS
- Optimizes infrastructure – speed and density

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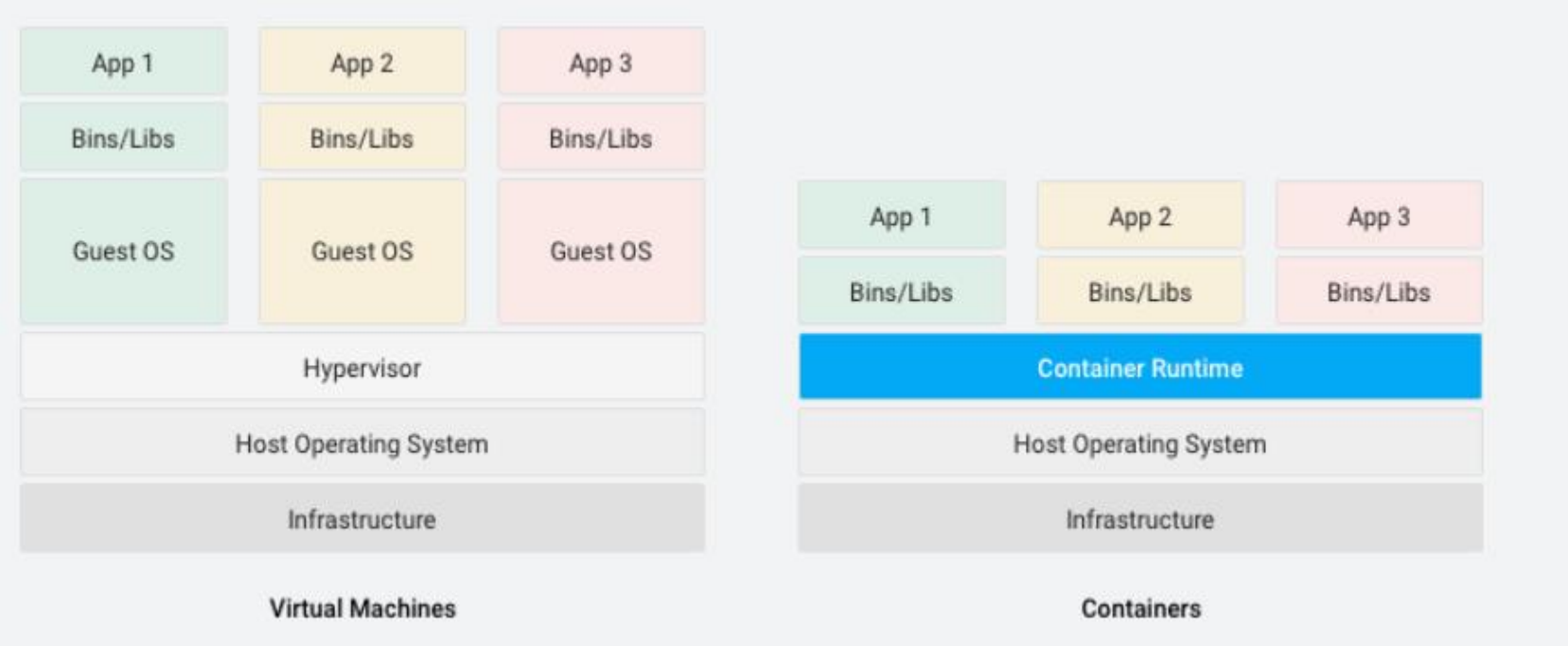
Container Service



Source: https://cloud.google.com/containers

Container Service

- Consistent Environment
  - software dependencies needed for the application can be easily managed
  - Fewer bugs
  - Development and production environment holds true
- Run anywhere
  - Easy to run on Linux/Windows/Mac or VMs or bare metals
- Isolation
  - virtualize CPU, memory, storage, and network resources at the OS-level, providing developers with a sandboxed view of the OS logically isolated from other applications.

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Container Vs VMs

	Container Benefits	Virtual Machine Benefits
Consistent Runtime Environment	✓	✓
Application Sandboxing	✓	✓
Small Size on Disk	✓	
Low Overhead	✓	

Source: https://cloud.google.com/containers

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Container Service

- Less of size
- Instant Access
- Modularity (Microservices)

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Container Service

Watch this Video

THANK YOU

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