

Containers vs. Virtual Machines

Container vs. VM

INFRASTRUCTURE



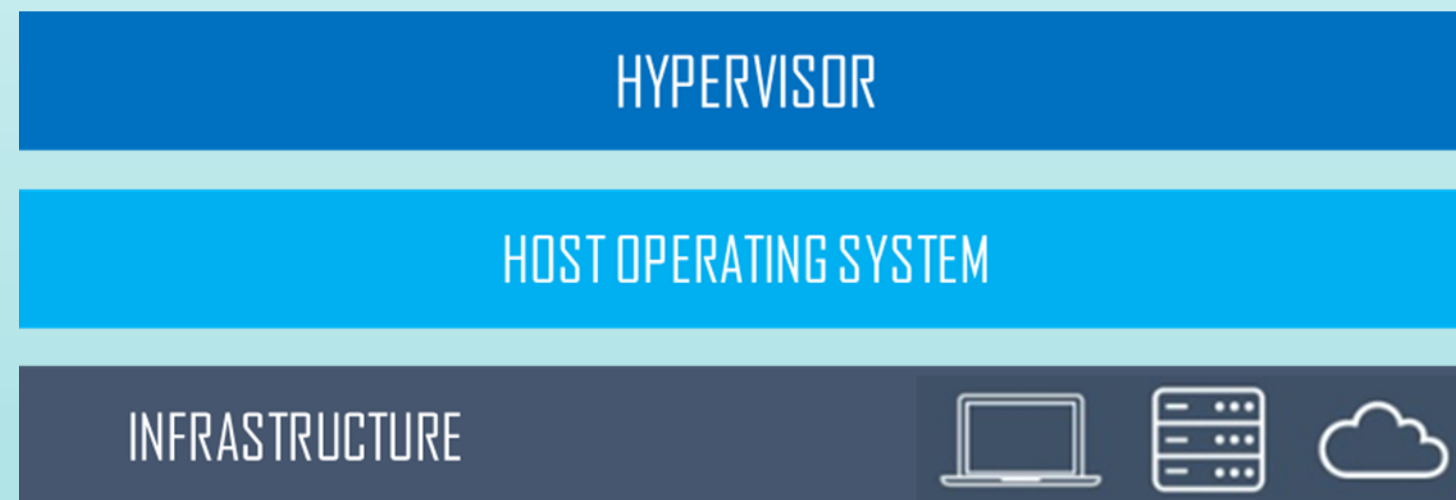
Virtual Machines

Container vs. VM



Virtual Machines

Container vs. VM



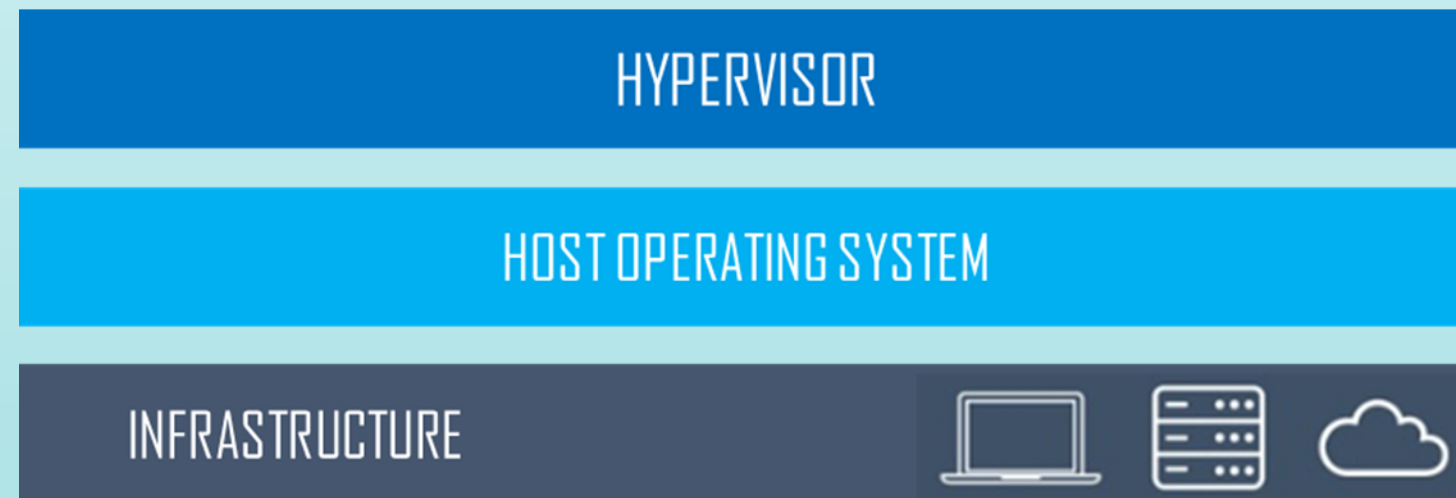
Virtual Machines

2 Types of Hypervisors

Type 1: Direct link to Infrastructure

Type 2: Runs as an app on the Host OS

Container vs. VM



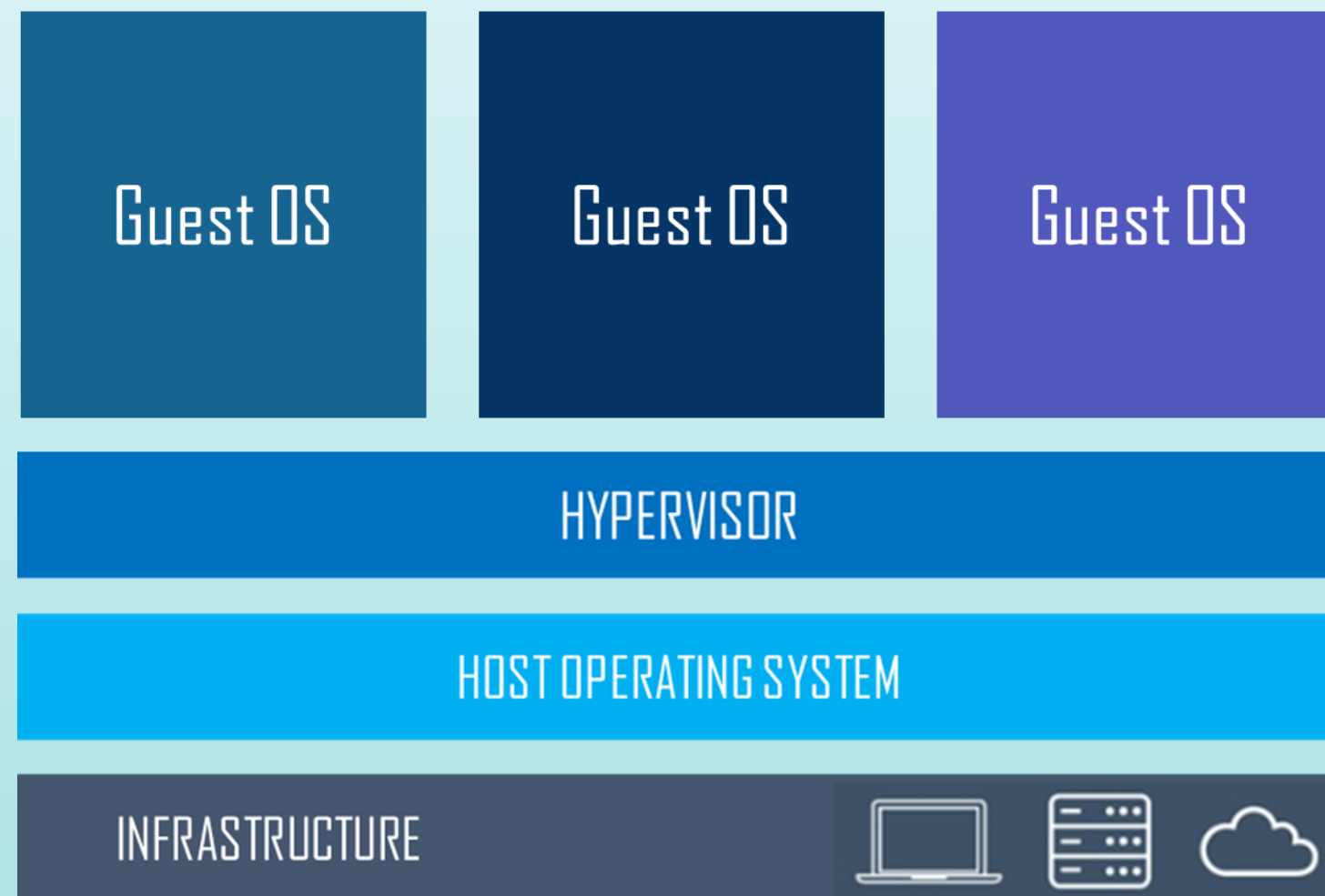
Virtual Machines

2 Types of Hypervisors examples

Type 1: VMware ESXi, Microsoft Hyper-V server and open source KVM.

Type 2: Oracle VM VirtualBox, VMWare Workstation

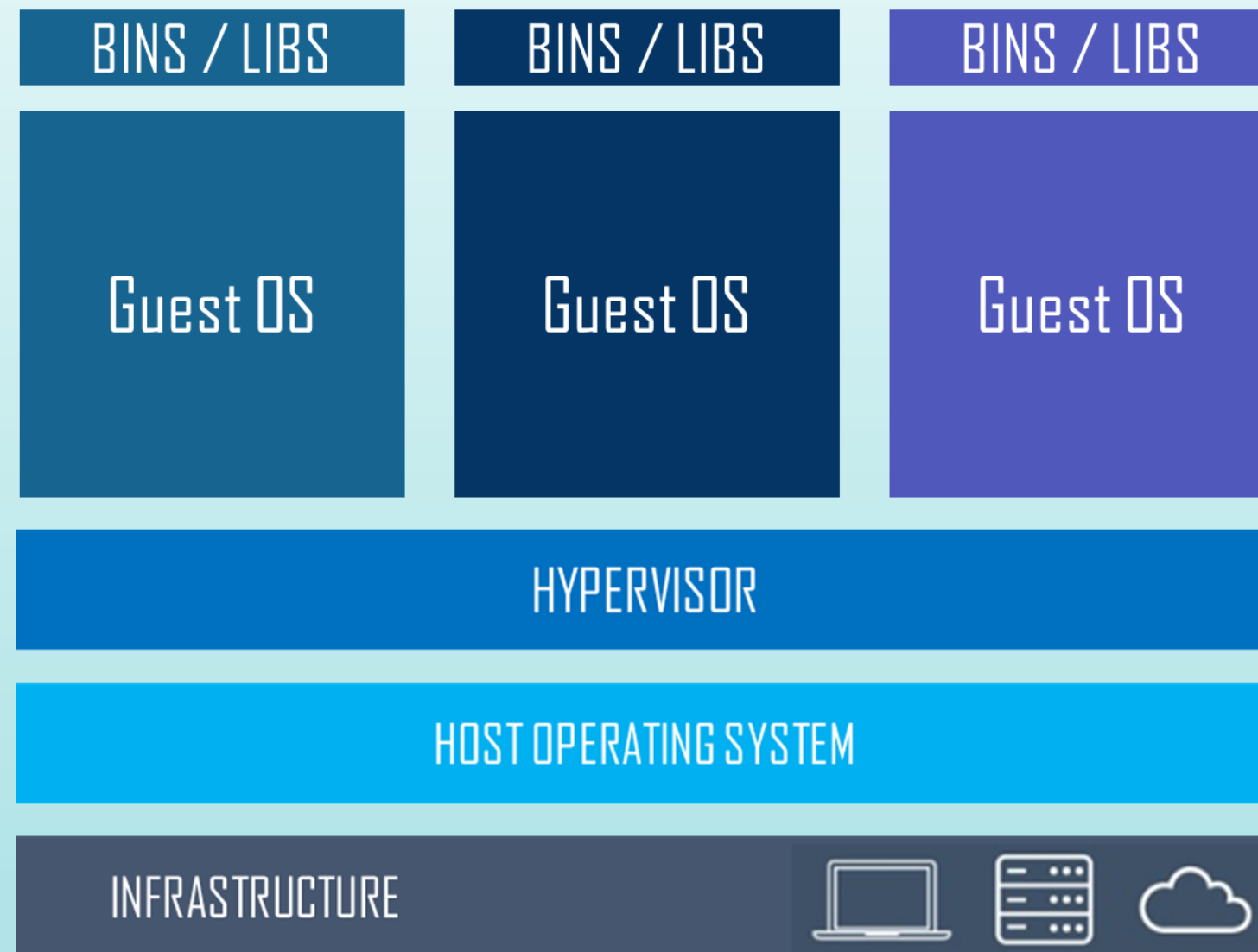
Container vs. VM



Virtual Machines

$700\text{MB} * 3 = 2.1\text{GB}$
+ CPU and Memory resources

Container vs. VM

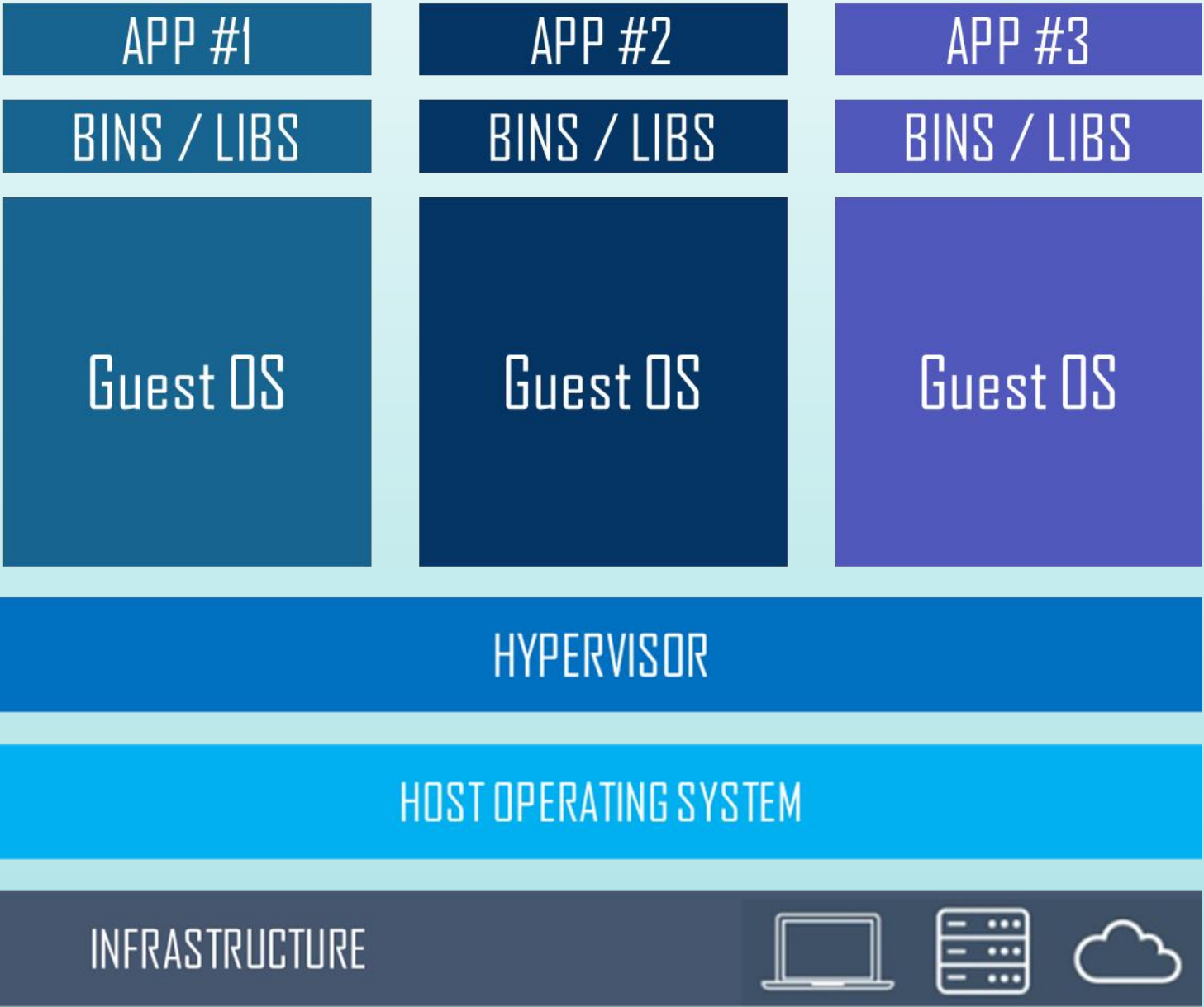


Virtual Machines

Examples:

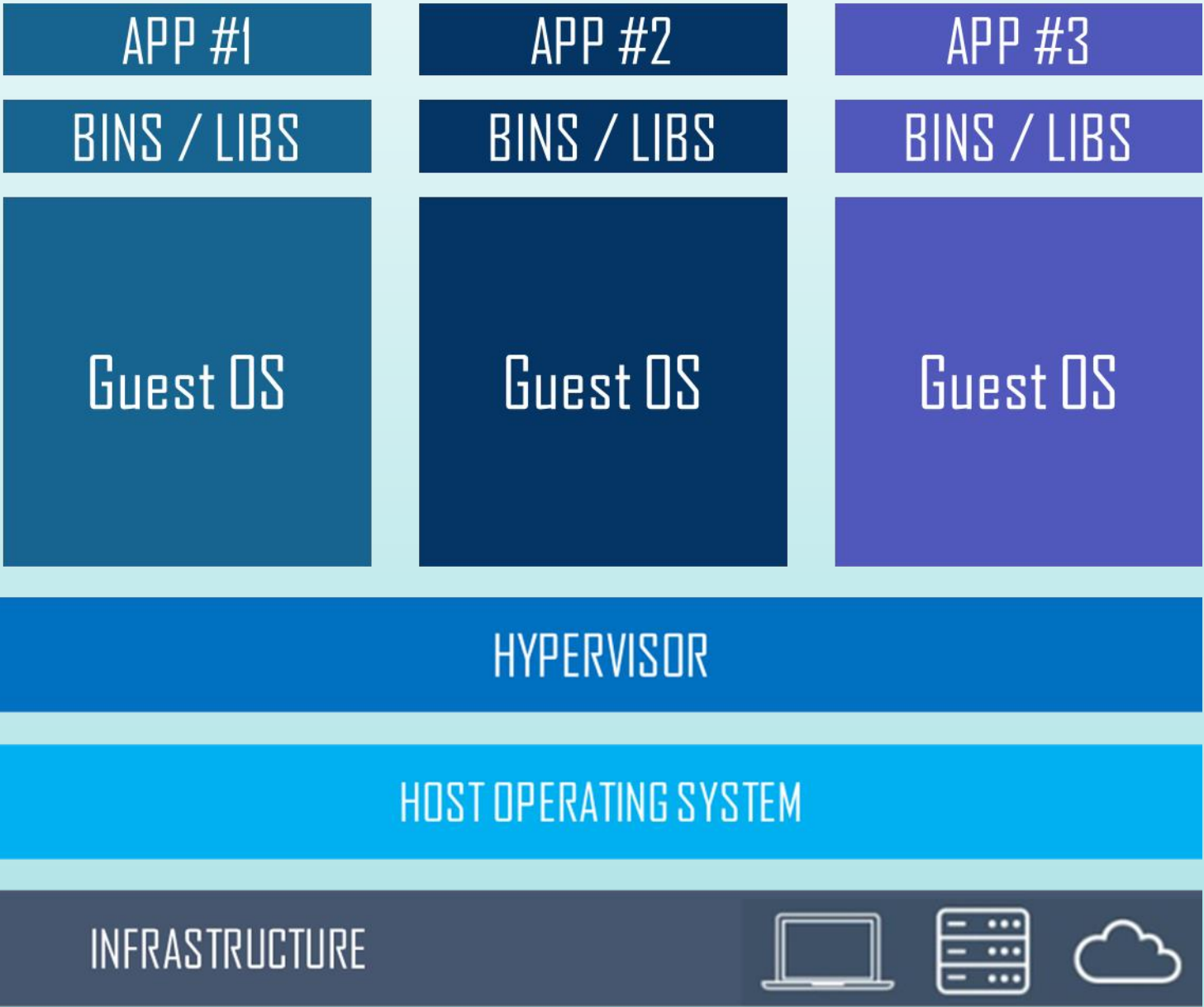
- DB connection library
- Ruby, Python and NodeJS packages

Container vs. VM



Virtual Machines

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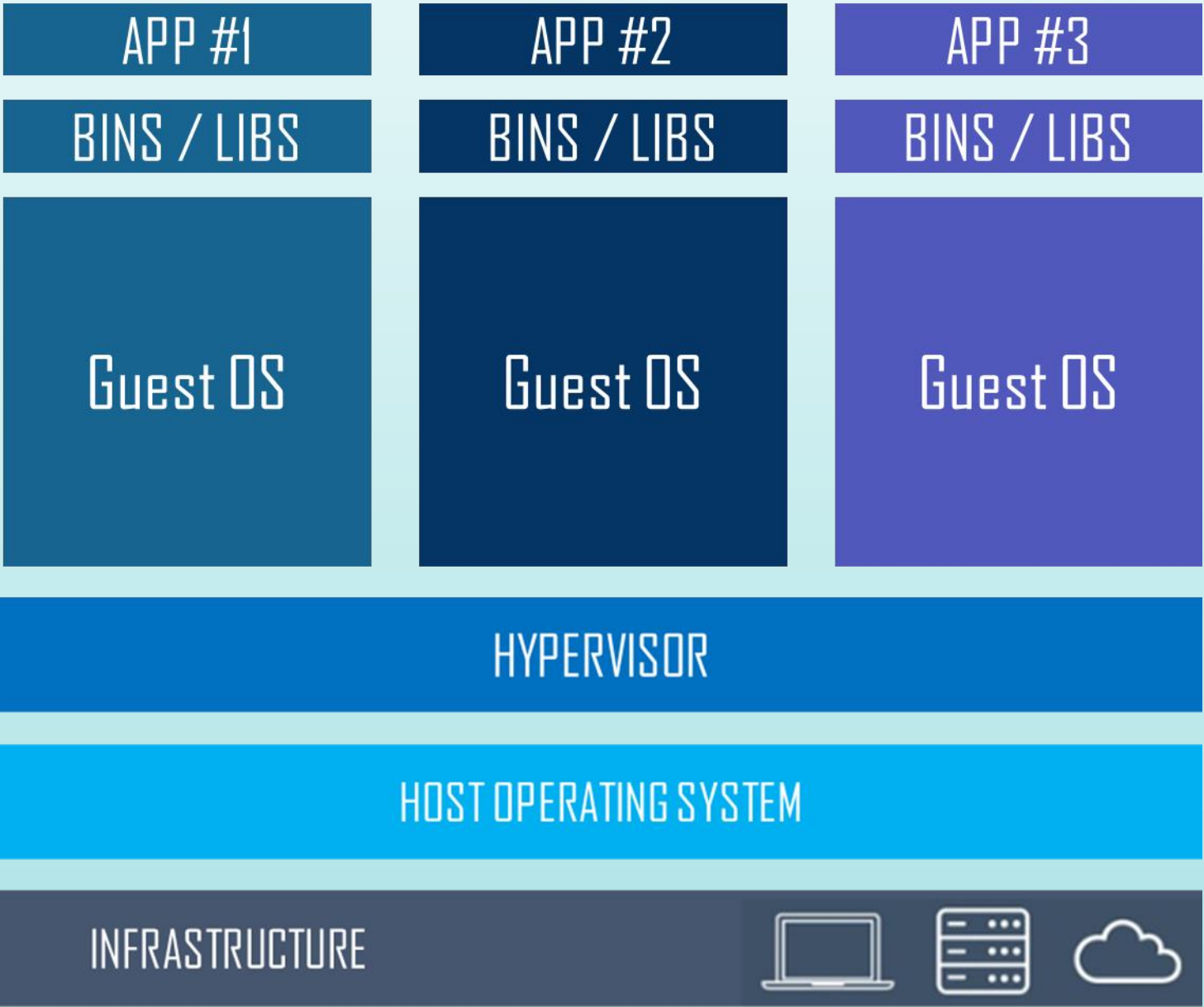


Virtual Machines



Docker Containers

Container vs. VM

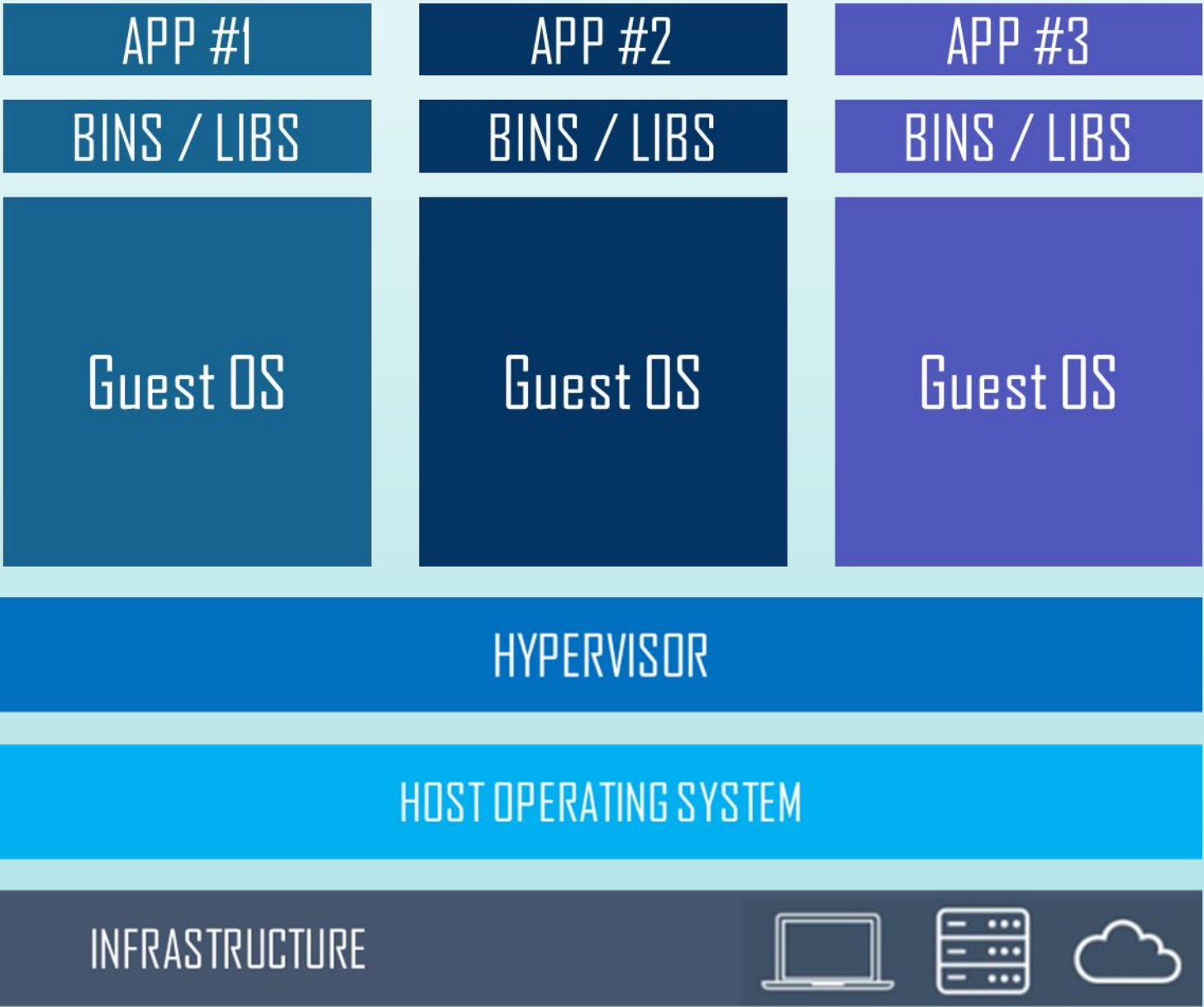


Virtual Machines

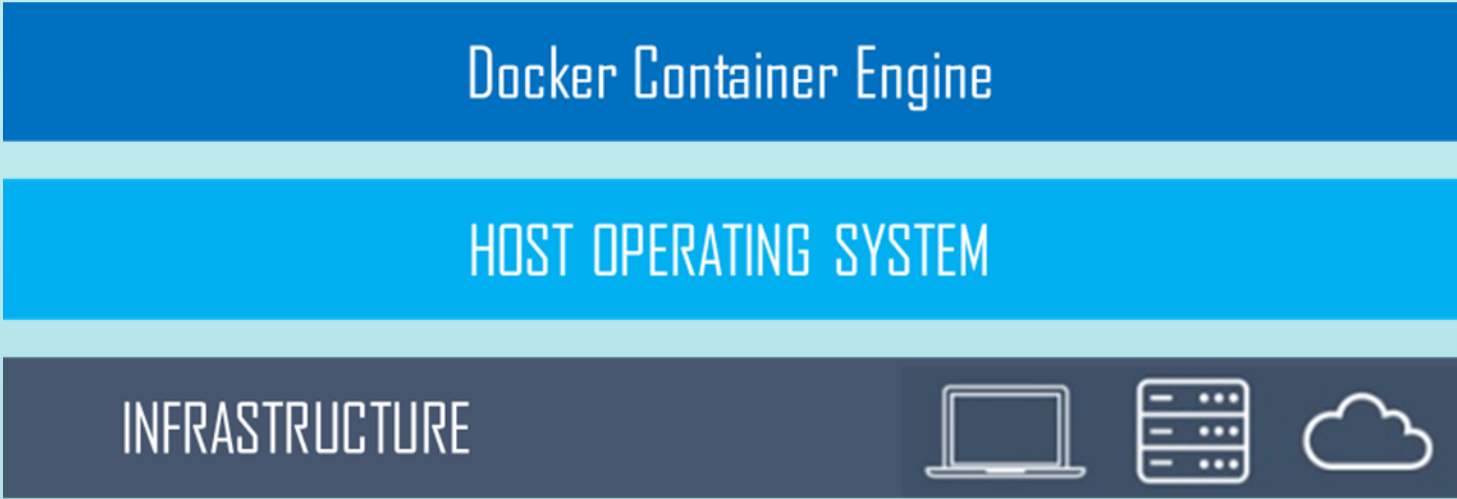


Docker Containers

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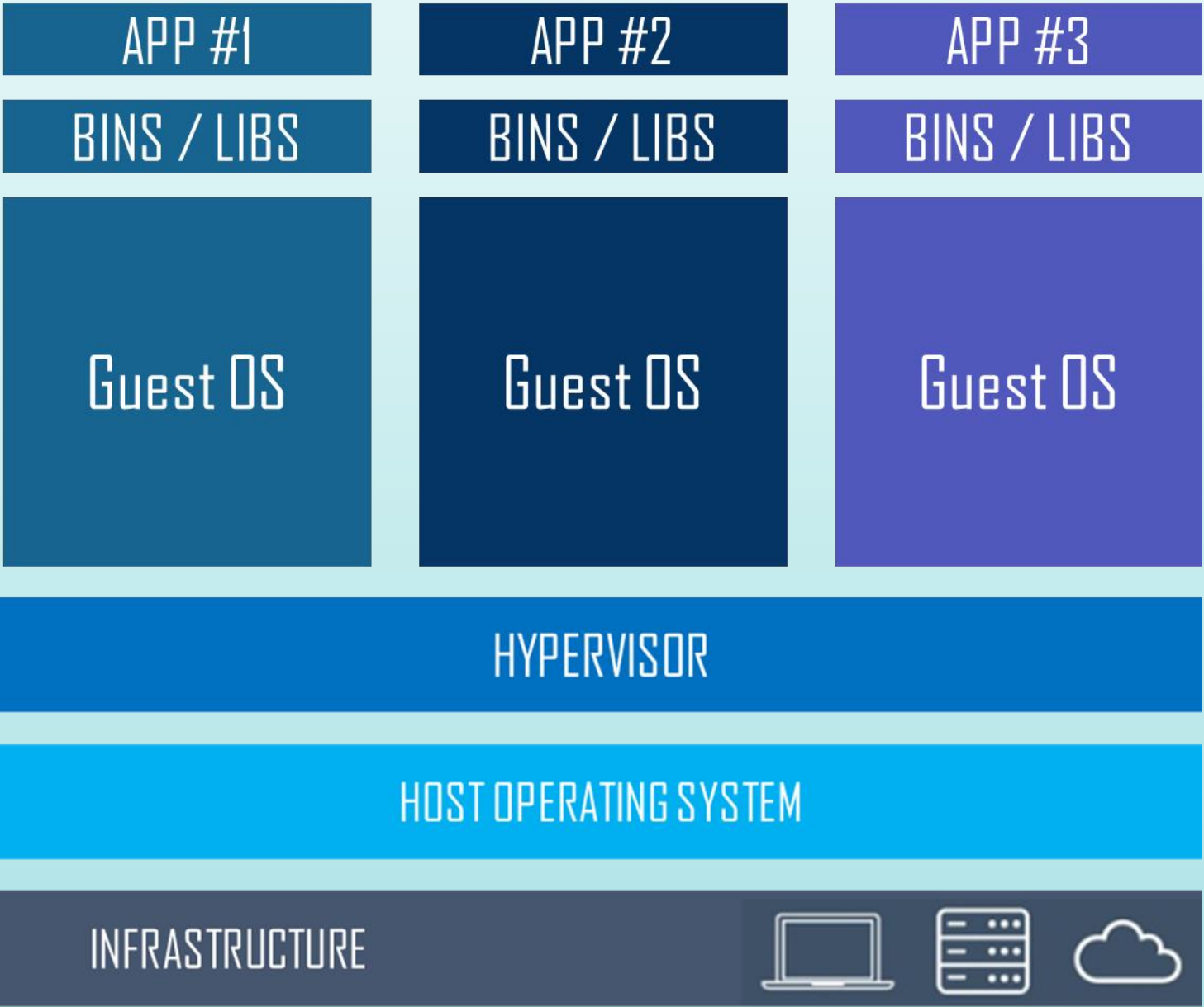


Virtual Machines

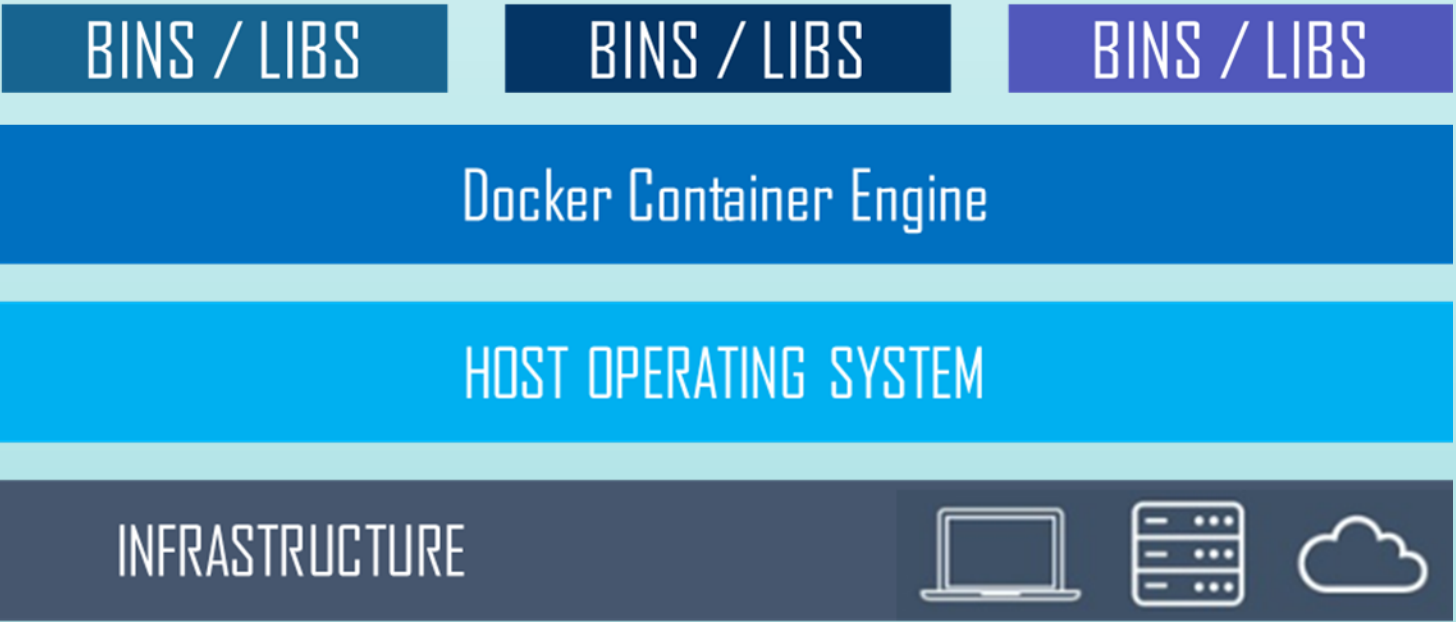


Docker Containers

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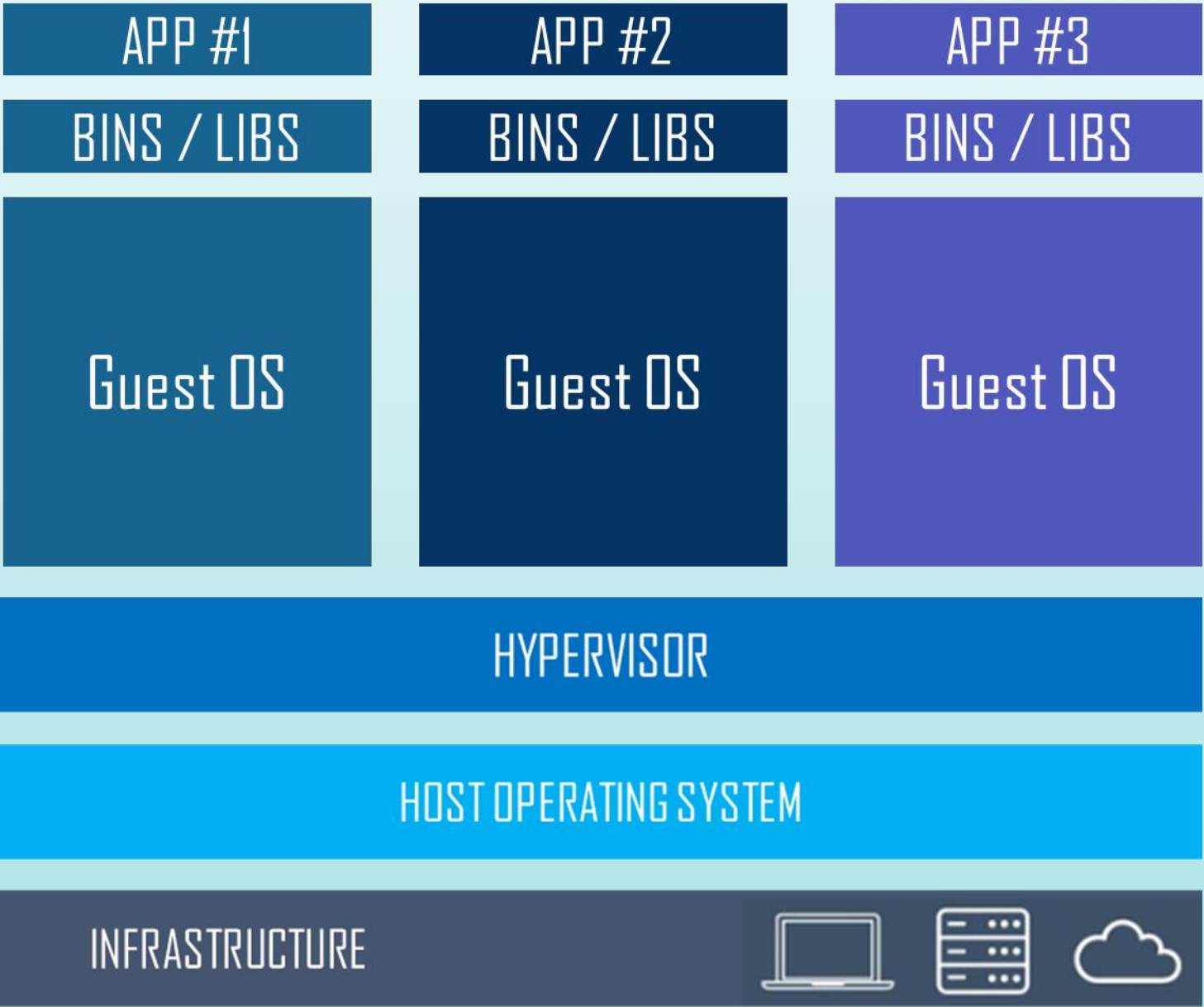


Virtual Machines

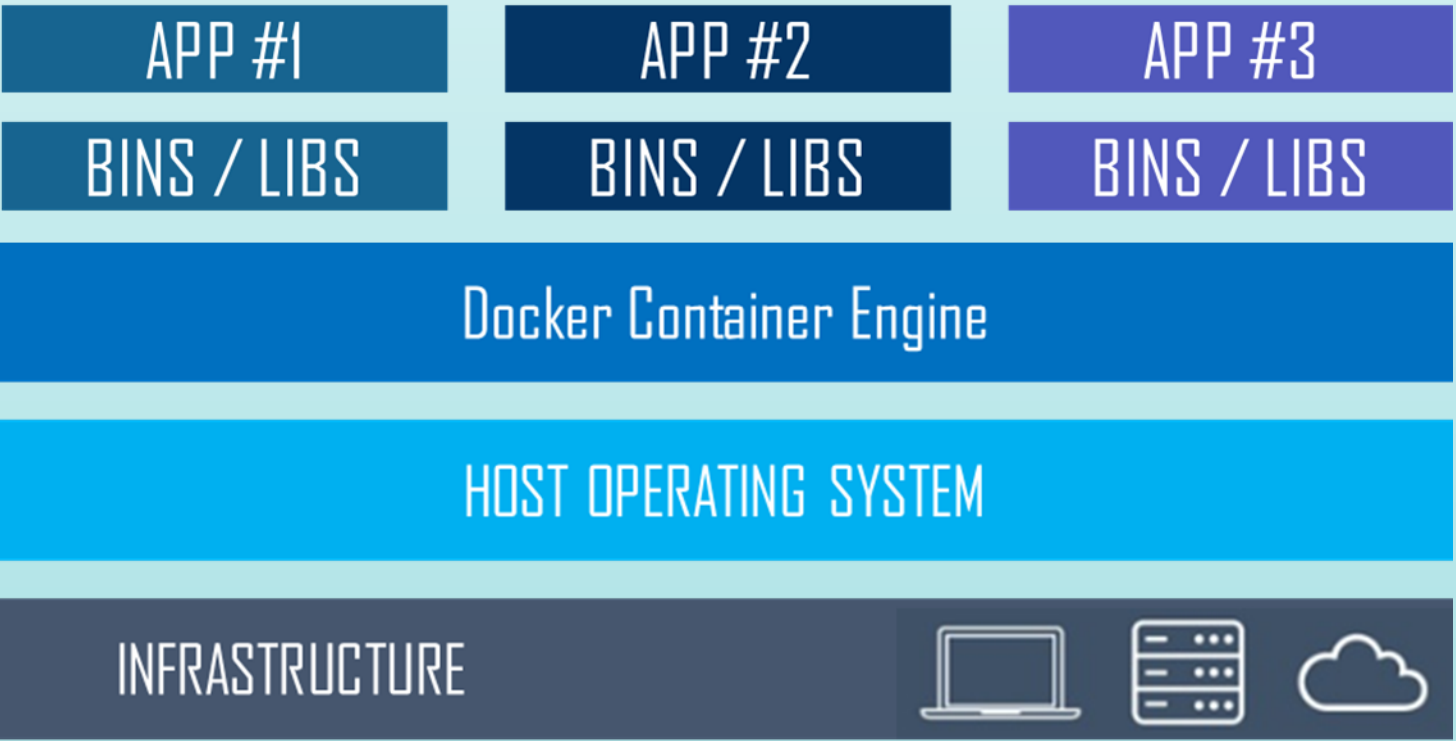


Docker Containers

Container vs. VM

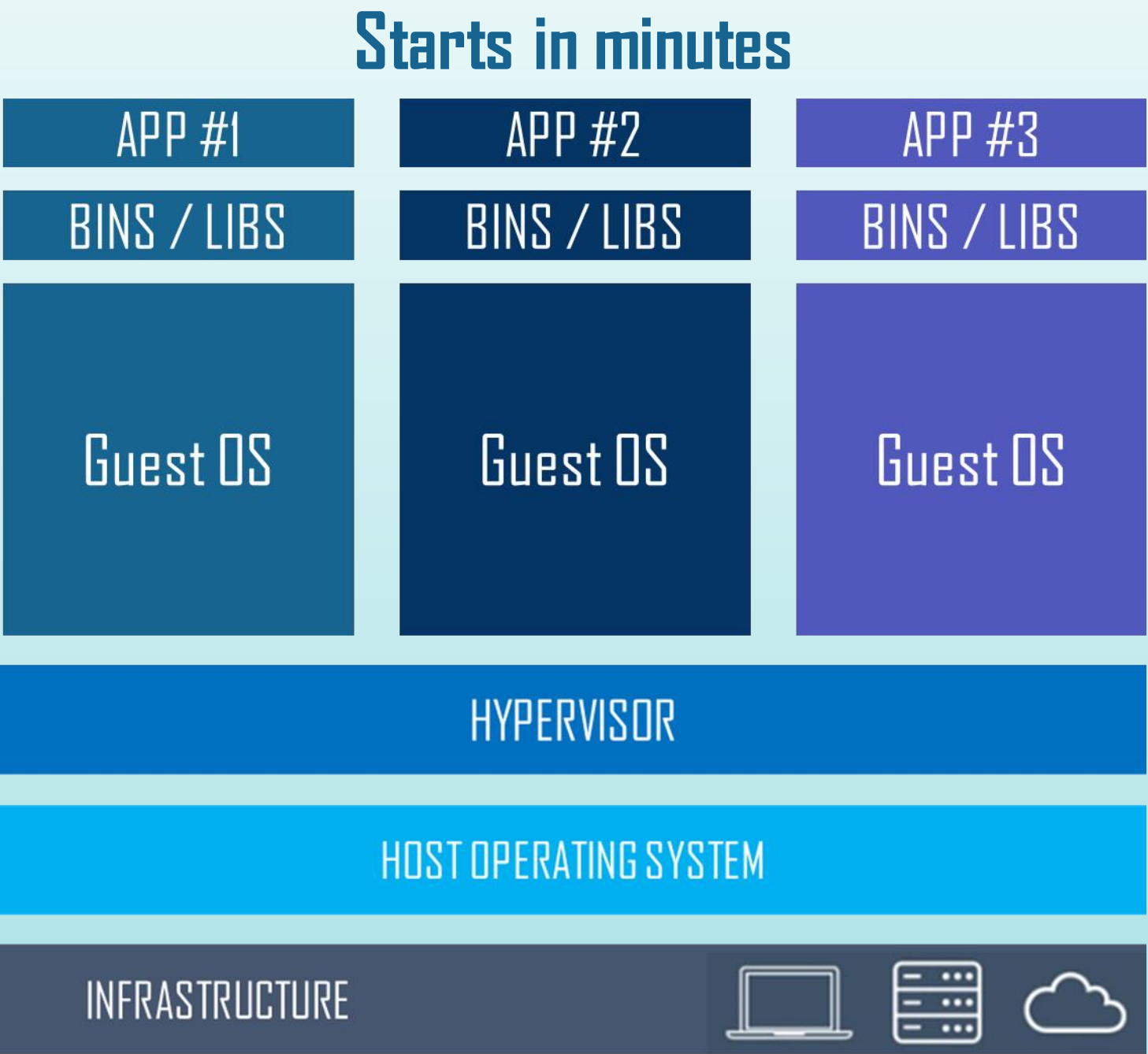


Virtual Machines

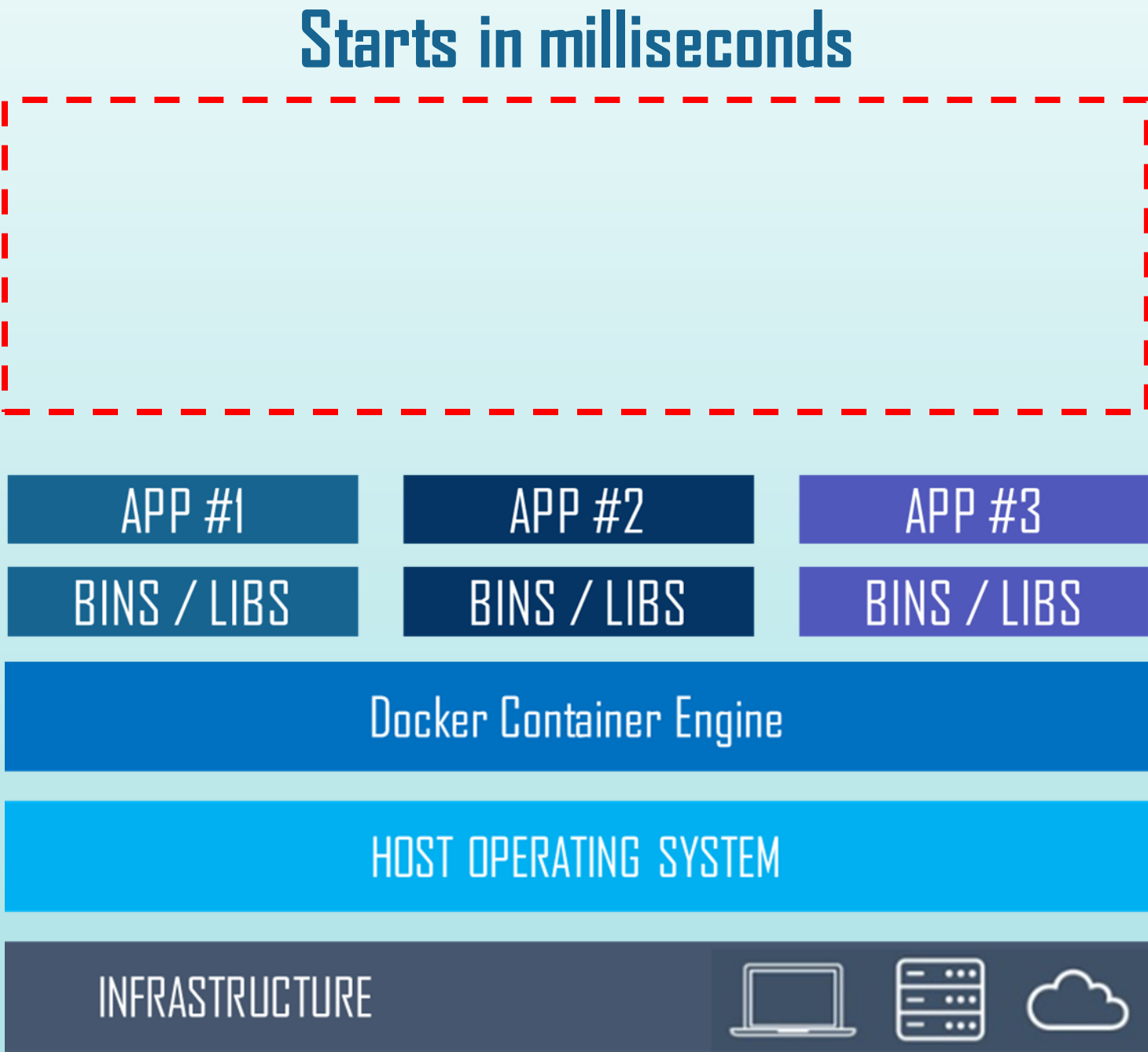


Docker Containers

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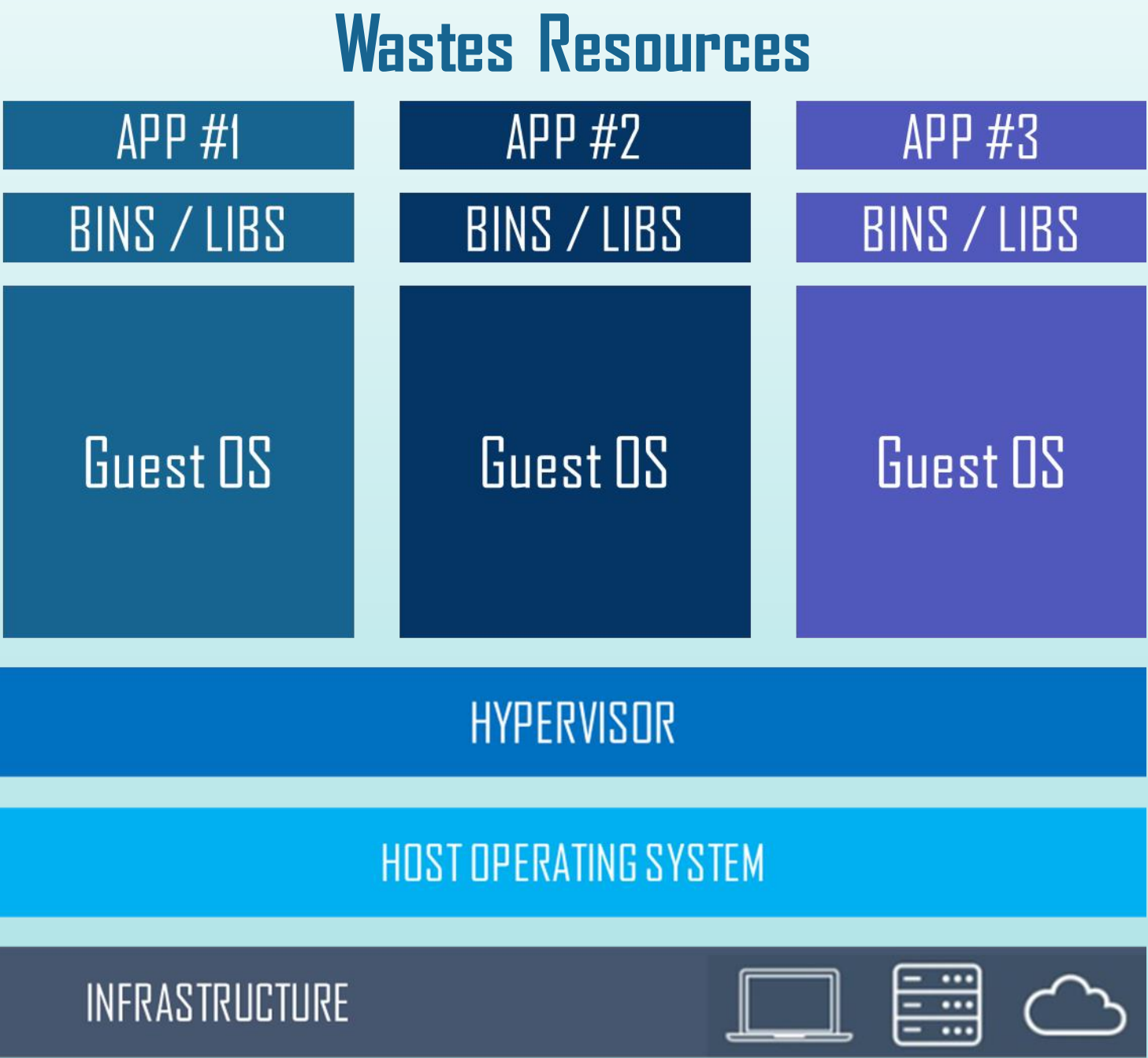


Virtual Machines

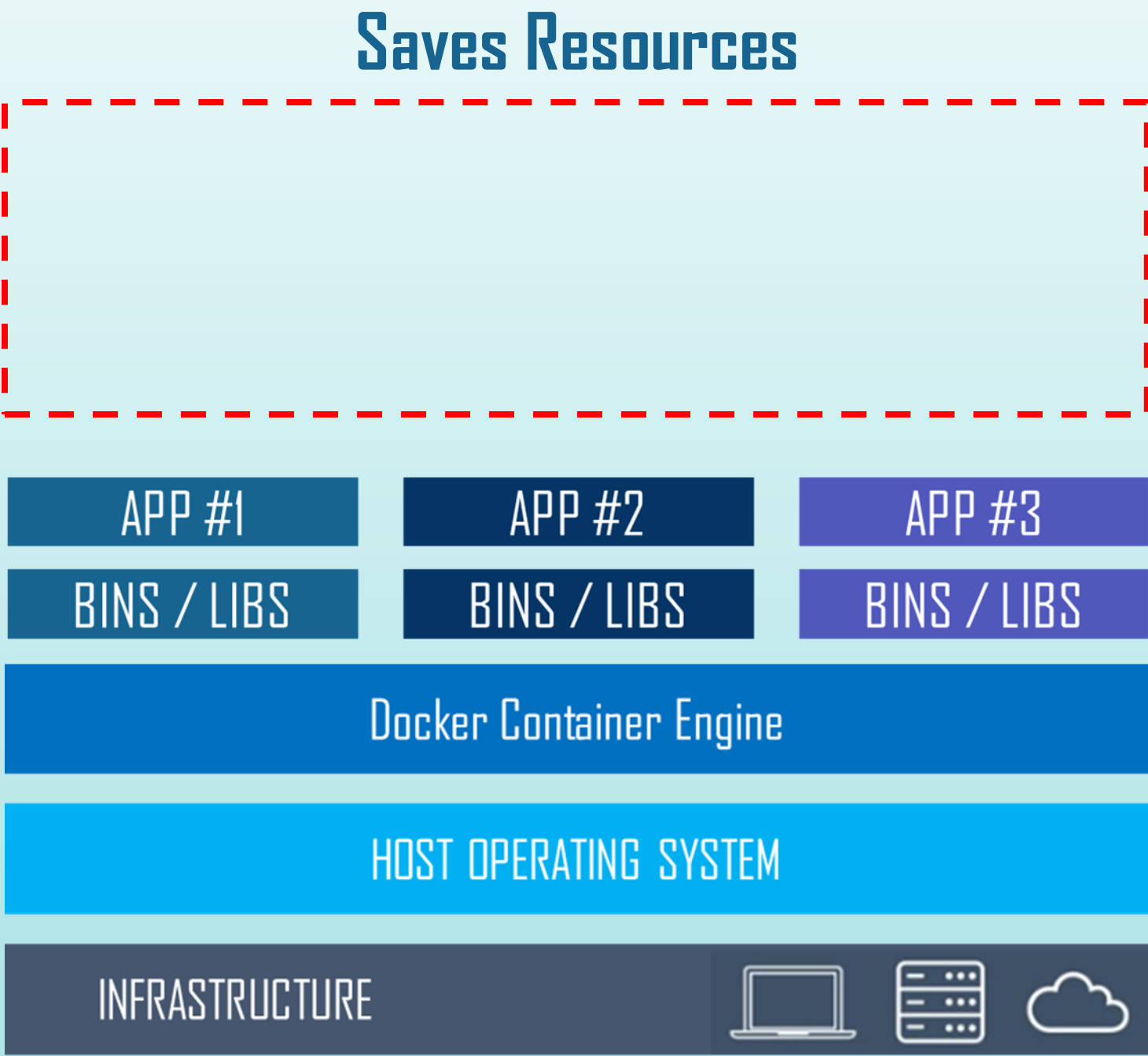


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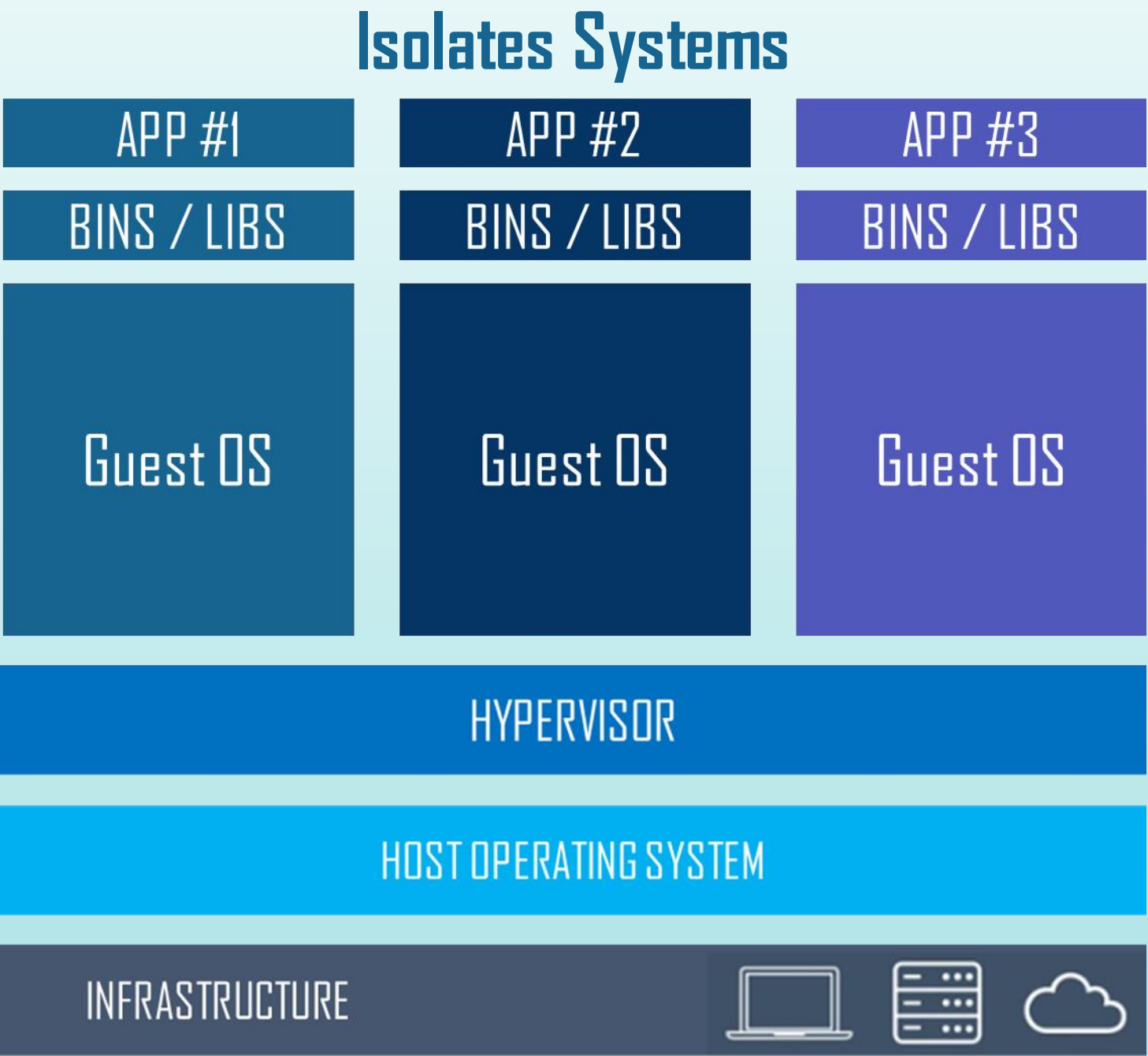


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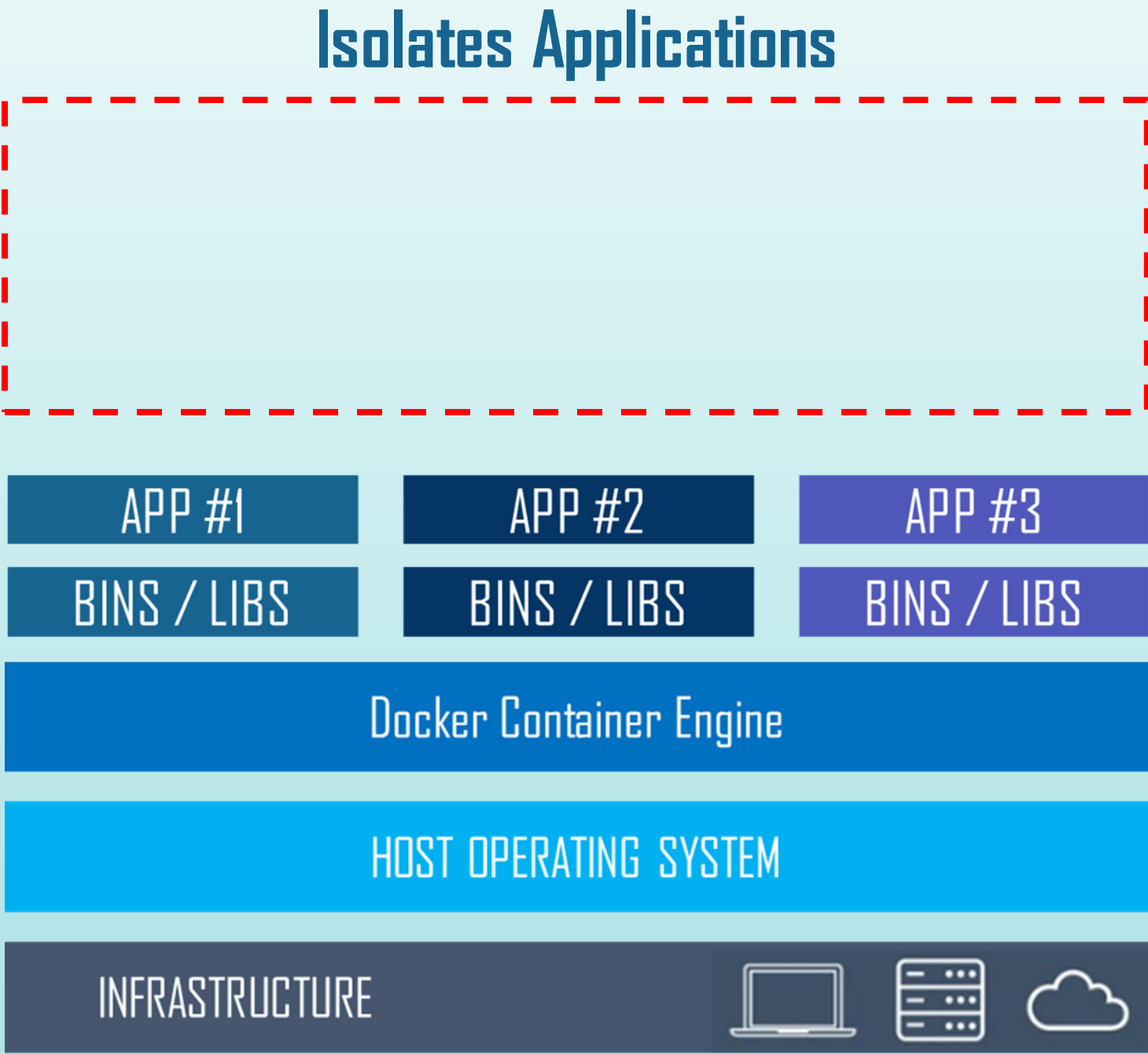


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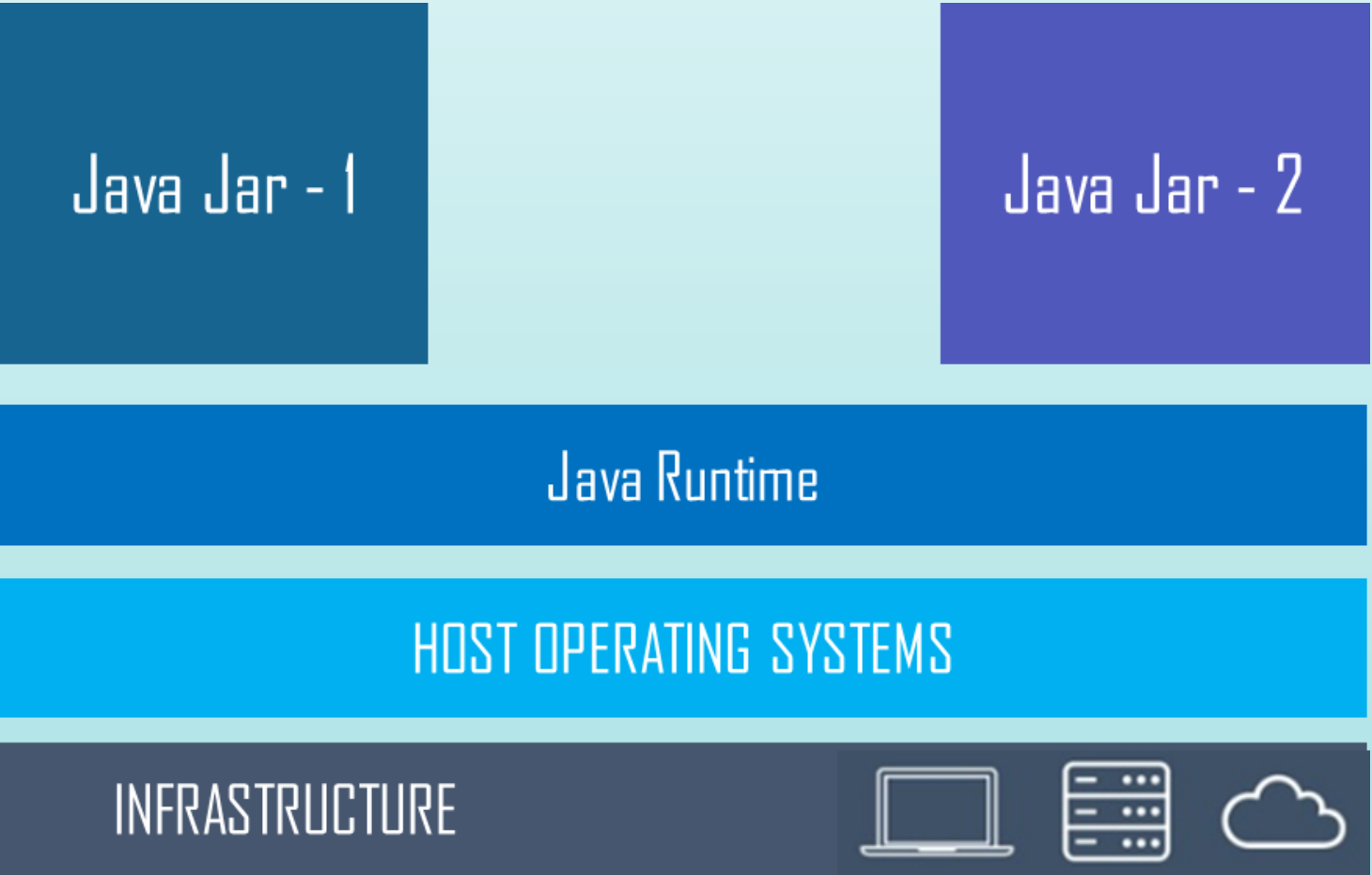
Virtual Machines



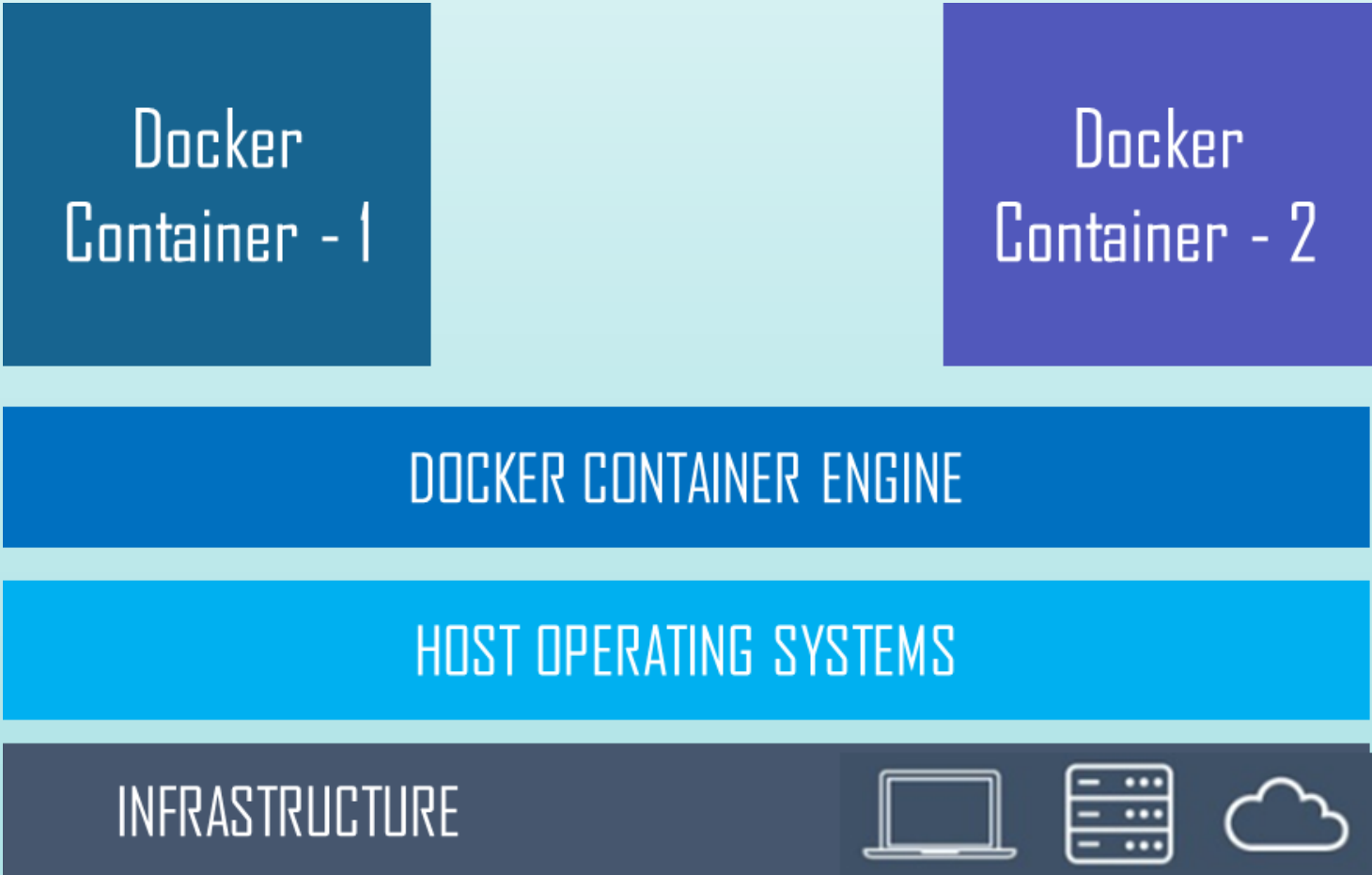
Docker Containers

Container vs. VM

Containers are 'Like' Jars



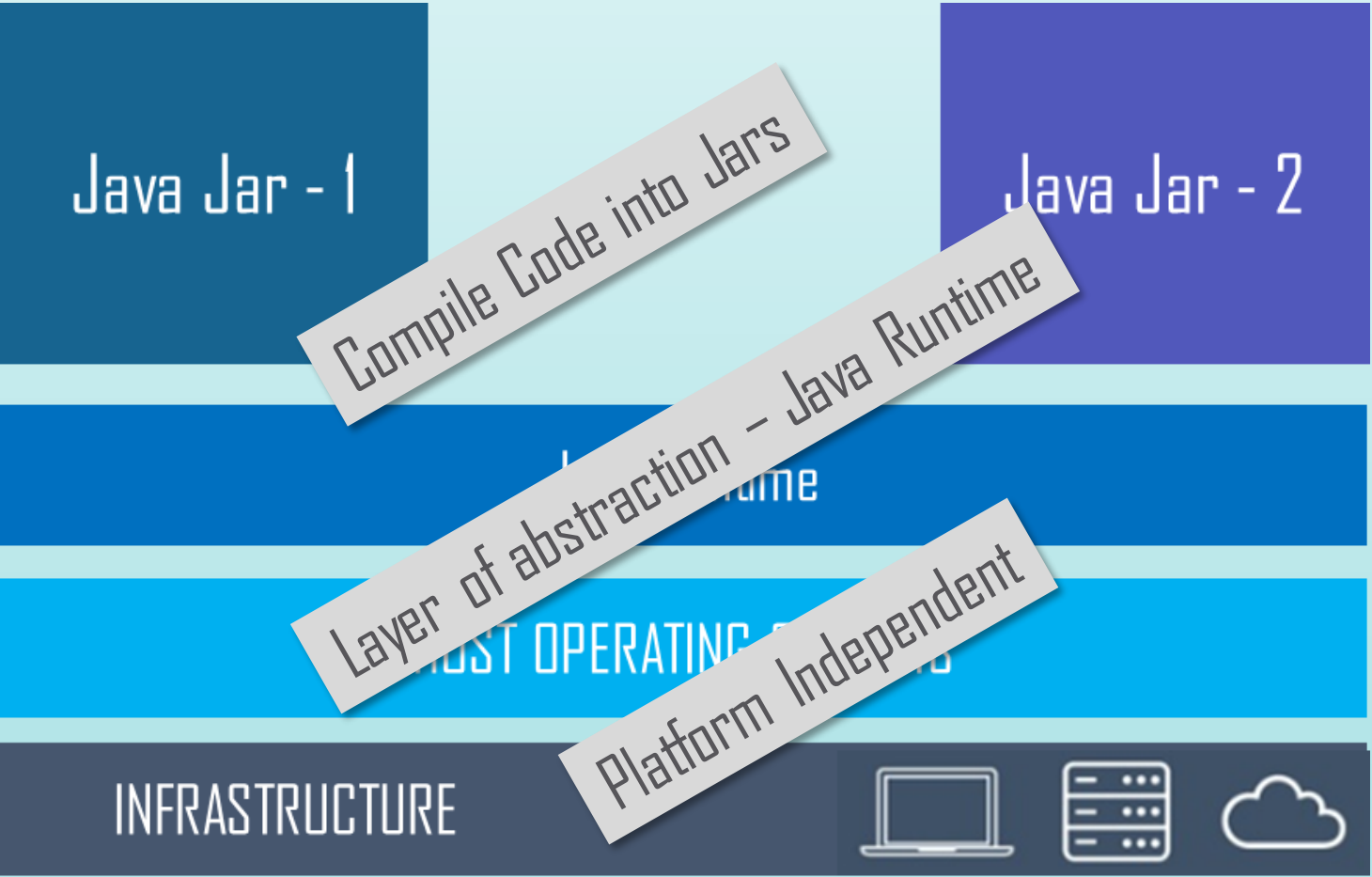
Java Jars



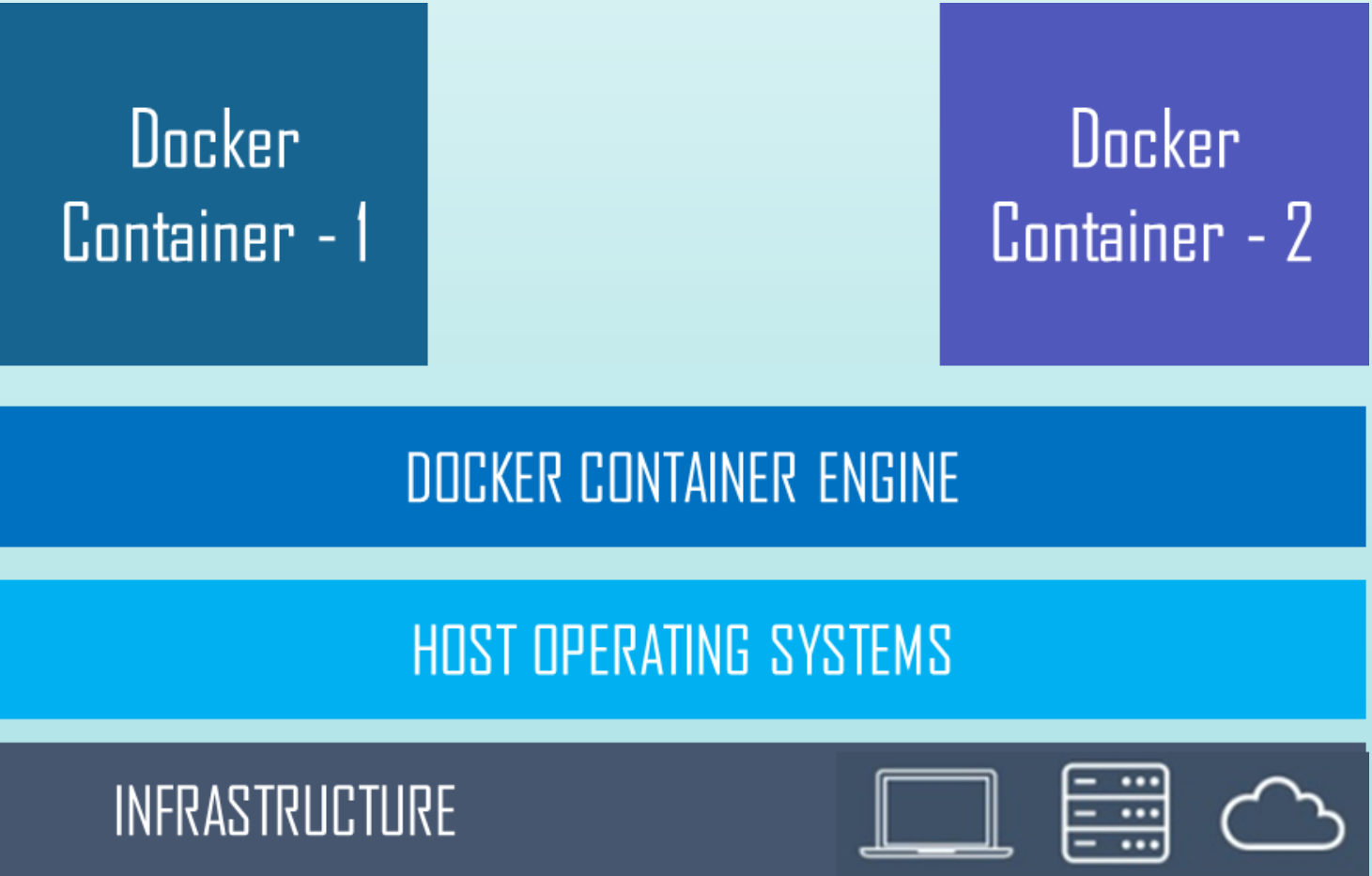
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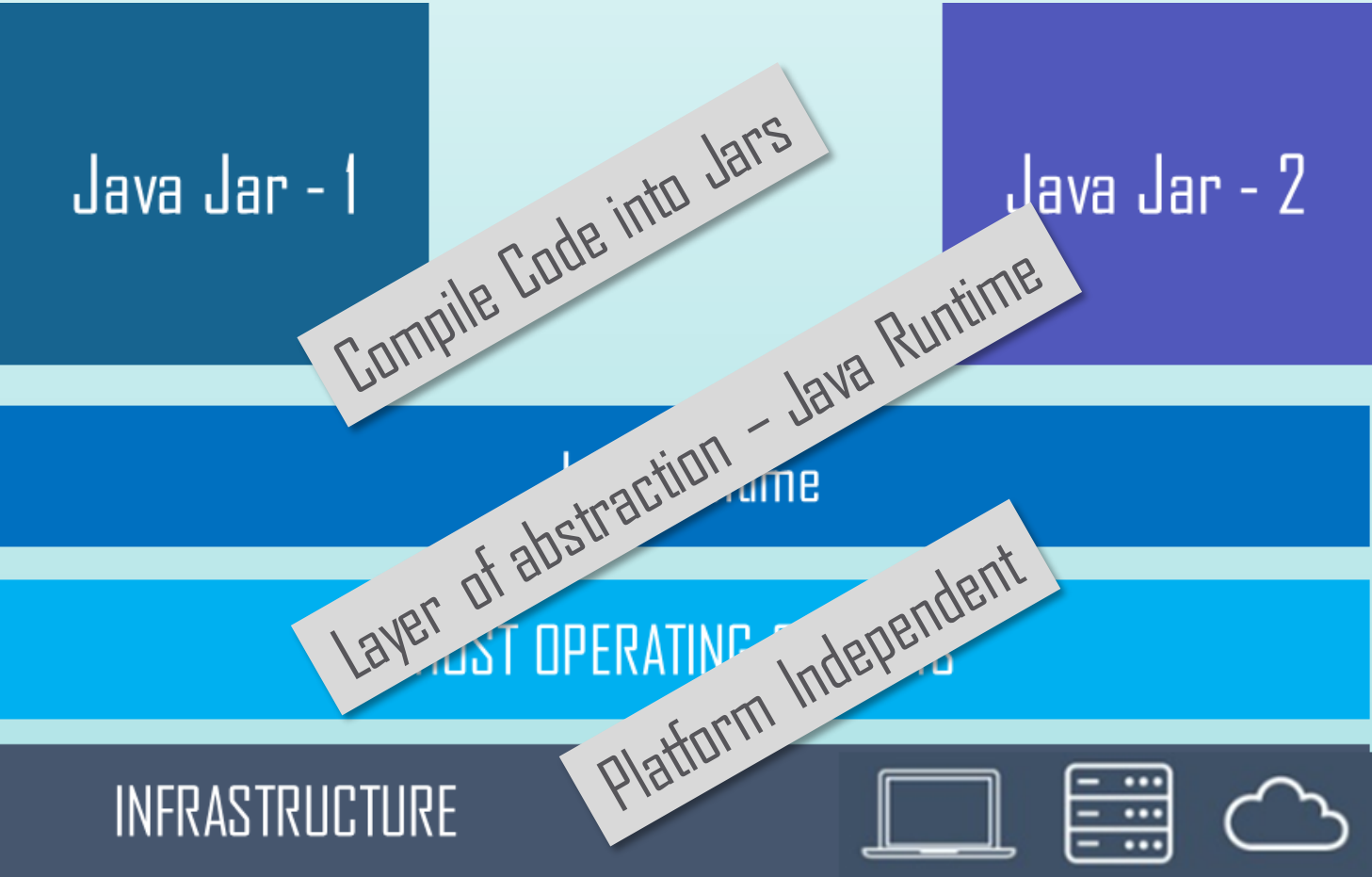
Java Jars



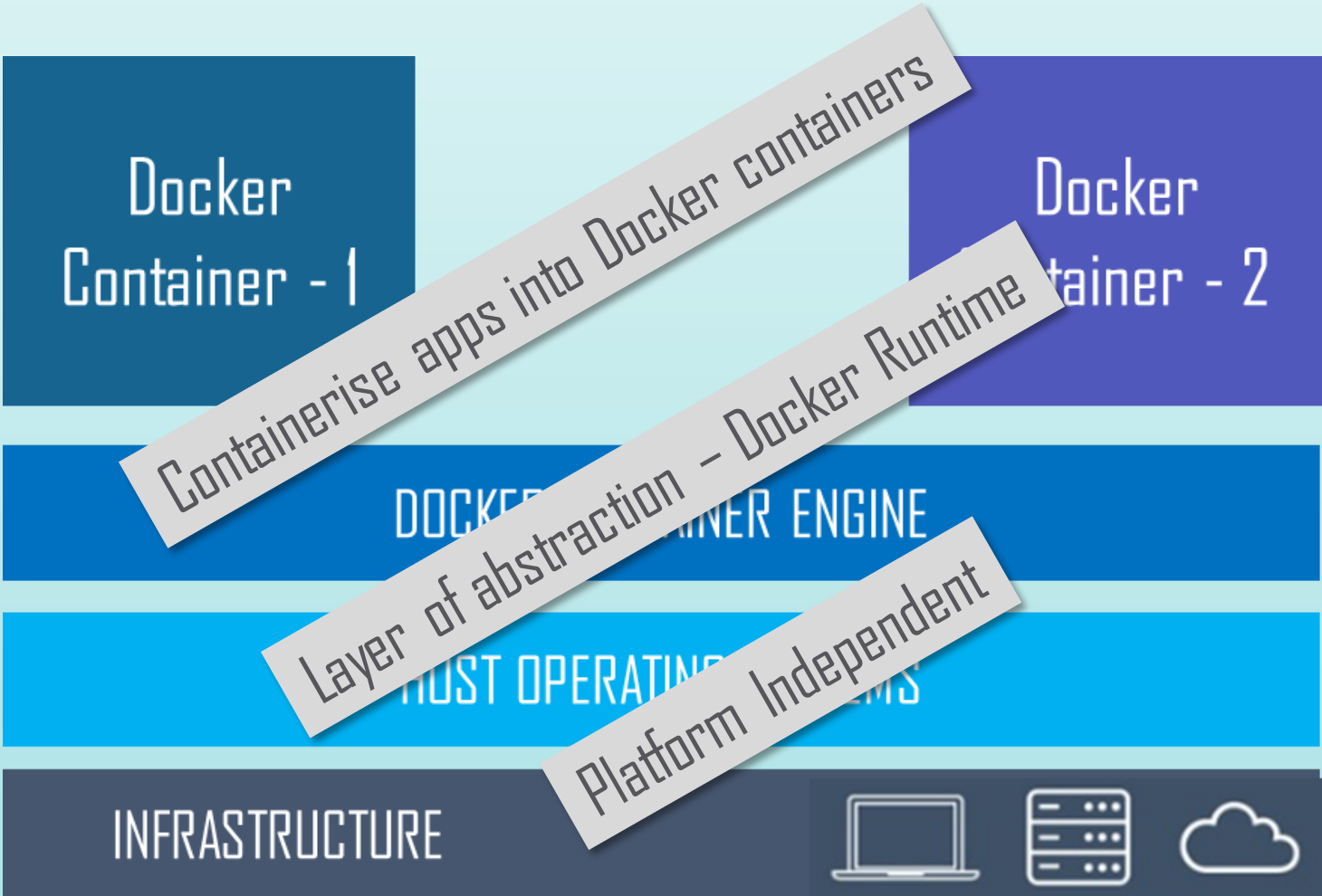
Docker Containers

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Java Jars



Docker Containers