



CONTAINERIZATION

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WHAT IS IT

Containerization is a *lightweight* form of virtualization that allows you to package and run applications and all their dependencies in isolated environments called **containers**.



CONTAINER

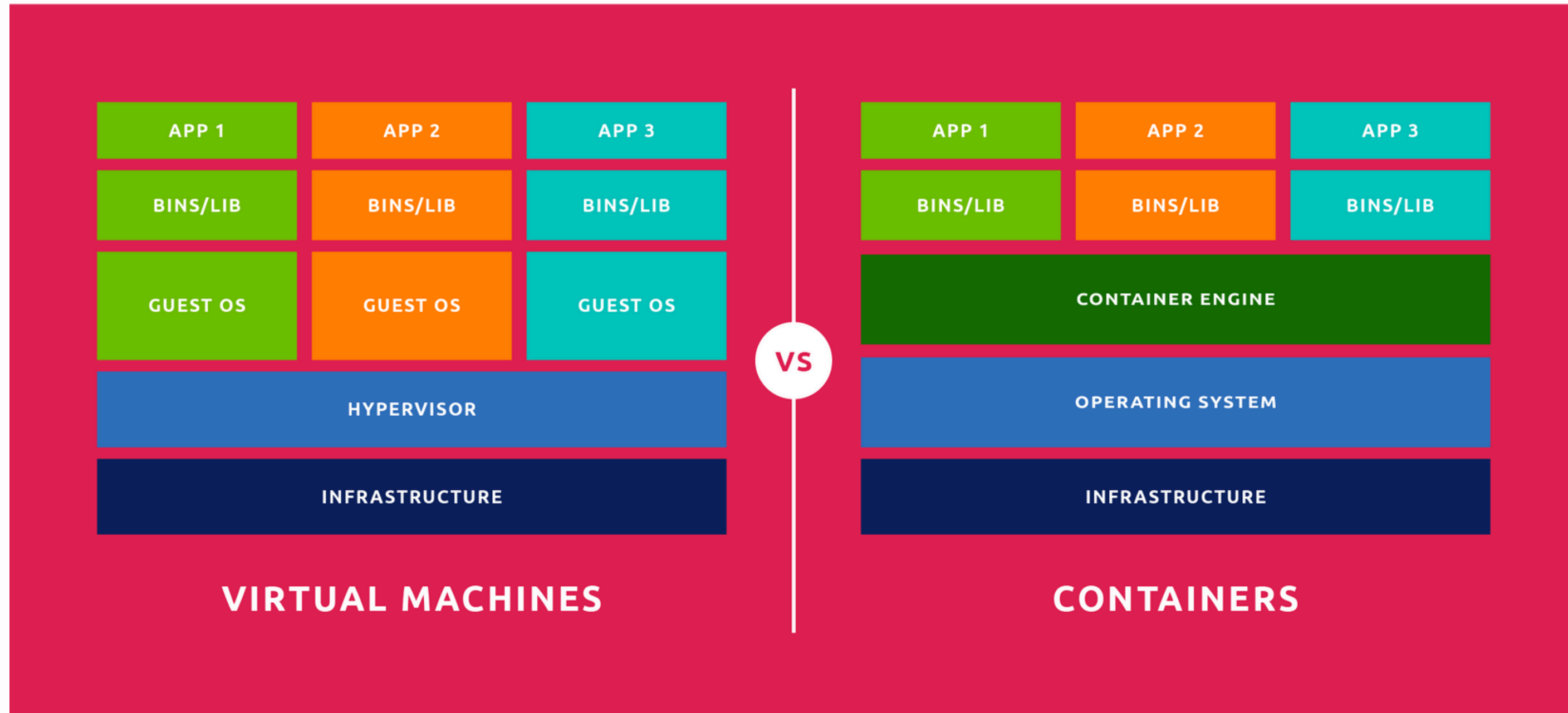
Is a fast and lightweight isolated user-space instance that contains *everything* needed to run the application: code, runtime, libraries, and config files.



W H Y ?

- Portability
- Scalability
- Security and Isolation
- Fault tolerance
- Efficiency

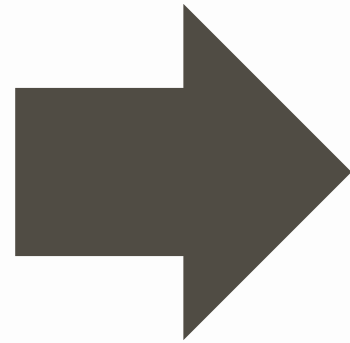
VIRTUALIZATION VS CONTAINERIZATION



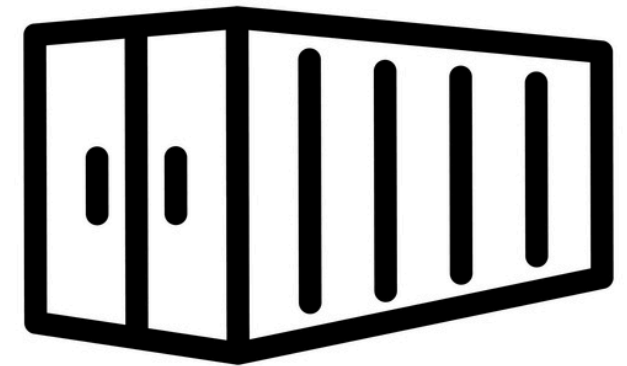
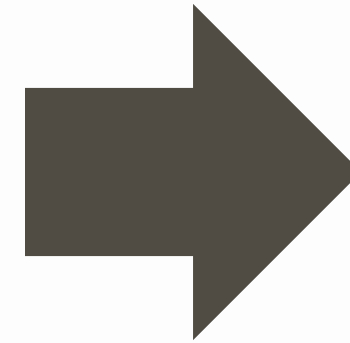
HOW TO RUN CONTAINER



Manifest



Image



Container

USE CASES

01 "It works on my machine!"

02 Automating tests and builds

03 Building scalable services

04 Adoption of microservice
architecture

05 Running old software on new
systems

06 Isolating risky code or third-
party software

THANK YOU