What is a Container?

What is a container?

Containers "package software into standardized units for development, shipment, and deployment."

[Source: https://www.docker.com/resources/what-container]

Uses for containers

Modernization

Benefits for applications

Boosting DevOps

Consistent production environments

Hybrid and multi-cloud computing environments

Key benefits of using containers
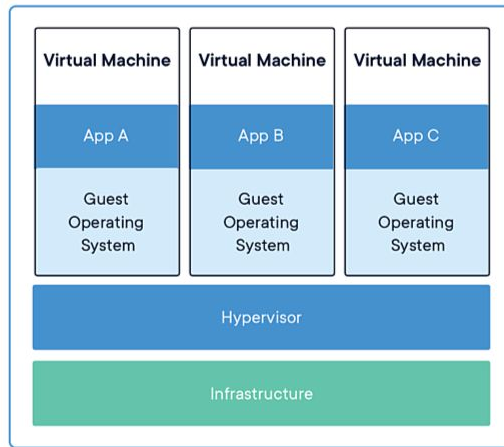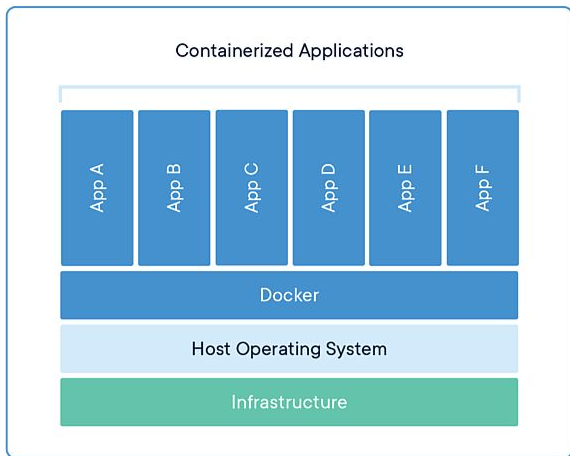
Containers are lightweight

Containers are portable

Containers are scalable

Containers can be cost-effective

Containers accelerate development

Containers vs Virtual Machines

Containers are an abstraction at the app layer that packages code and dependencies together

Virtual machines are an abstraction of physical hardware, turning one server into many servers

[Source: https://www.docker.com/resources/what-container]

Essential items provided by all CSPs

Container registry

Kubernetes

Dockerfile format

Continuous integration

Deep container integration