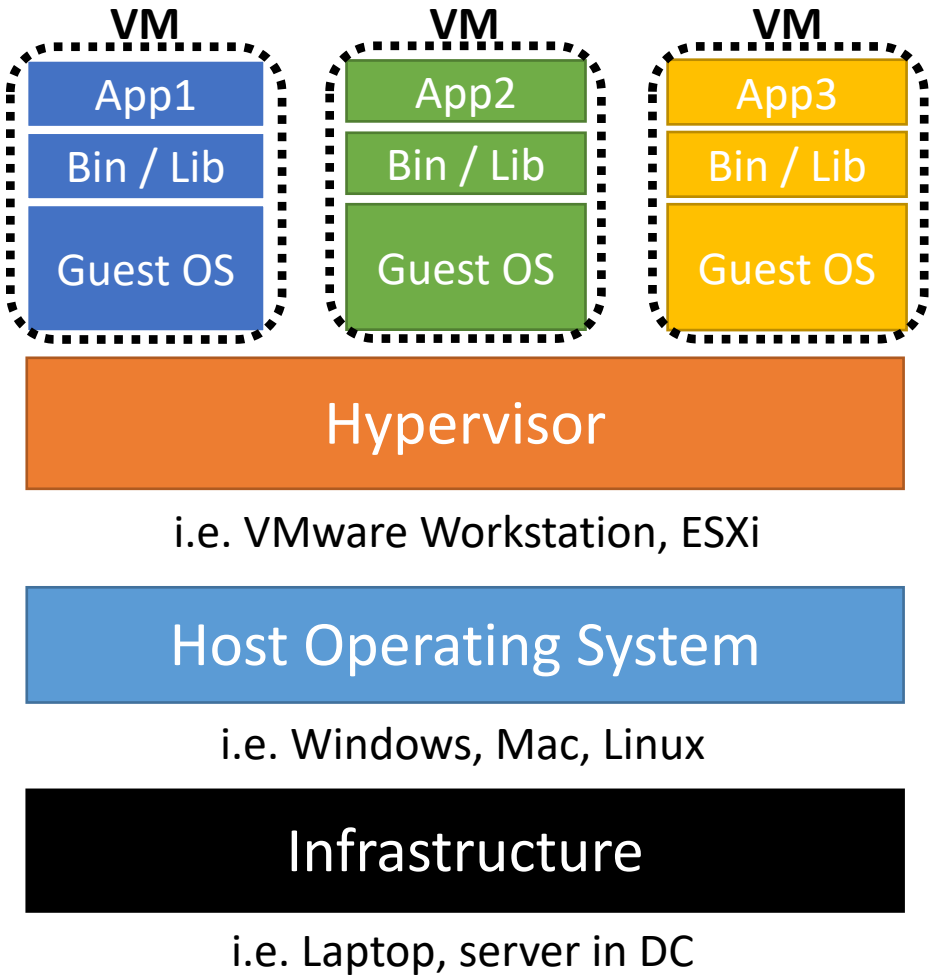
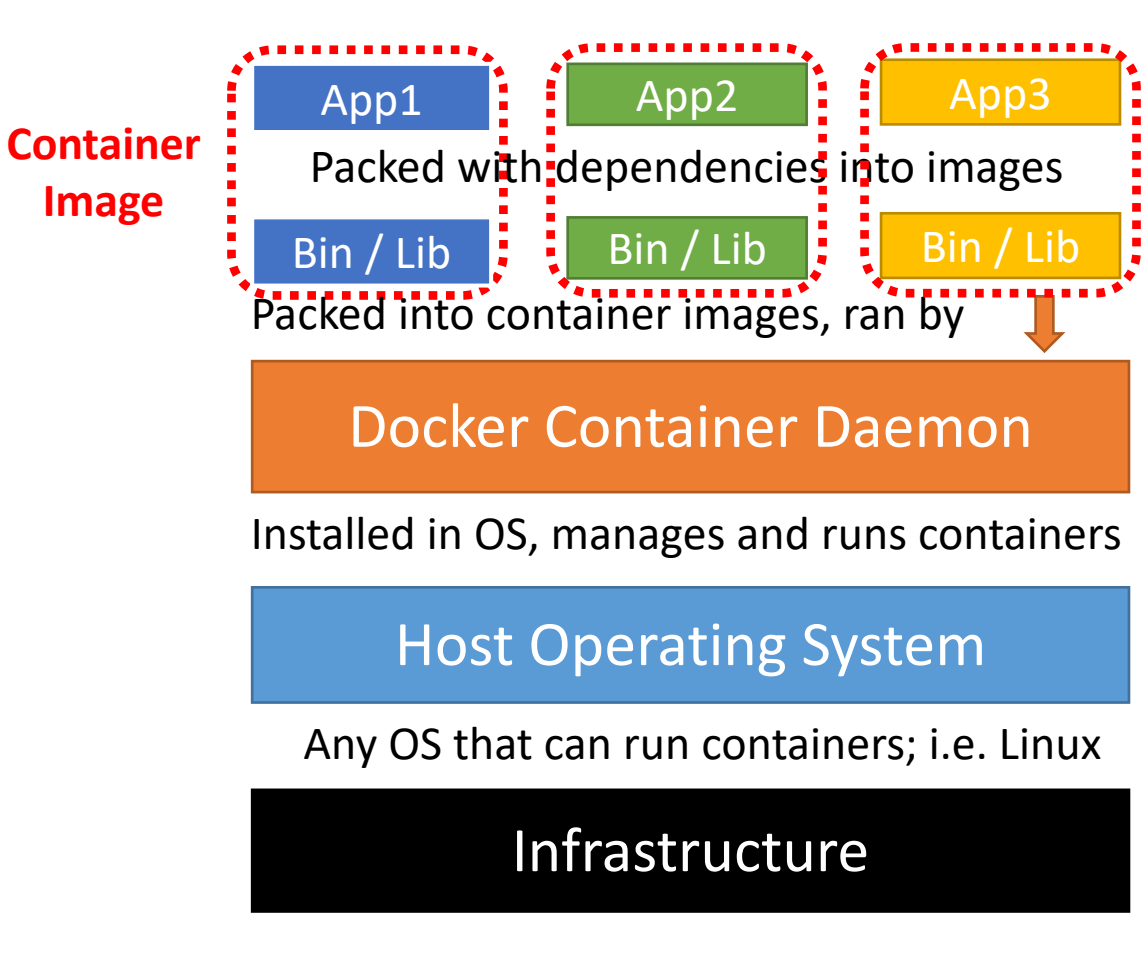
Microsoft Azure Fundamentals
Training Bootcamp

Azure Containers Fundamentals 101

Virtual Machines VS Containers



Virtual Machines



Containers

Virtual Machines VS Containers

	Virtual Machines	Containers
Boot Time	minutes	ms or seconds
Guest OS	Yes	No
Resources	High (CPU,RAM,Storage)	Low
Use Case	Isolate systems (environment)	Isolate Applications

Virtual Machines VS Containers Analogy

VM

- Totally separate
- Own infrastructure
  - Electricity
  - Heating, etc

Container

- Shared infrastructure
  - Electricity
  - Heating, etc
- Multiple sizes available

Containers in Azure – Azure Container Instances

- You can easily run containers on Azure without managing servers -> *Azure Container Instances (ACI)*

- ACI (Azure PaaS offering) allows uploading your containers to Azure and running them immediately

- No virtual machines to manage, no additional configuration needed

Containers in Azure – Azure Kubernetes Service

- Azure Kubernetes Service (AKS) makes deploying and managing containerized applications easy

- Azure Kubernetes Service (AKS) is a complete orchestration service for containers with distributed architectures with multiple containers

- Orchestration – use AKS in order to automate, manage and interact with a large number of containers

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Thank you