Physical Machine 1

App1
PHP 5.5
MYSQL 5.5

App2 v2
PHP 7.0
MYSQL 6.0

All Software required to run app

PHP 5.5
MYSQL 5.5

RHEL 7.9

Physical Machine 1

Physical Machine 2

App2 v2
PHP 7.0
MYSQL 6.0

PHP 7.0
MYSQL 6.0

RHEL 7.9

Physical Machine 2

Virtual Machine

App1
PHP 5.5
MYSQL 5.5

App2 v2
PHP 7.0
MYSQL 6.0

App2 v2
PHP 7.0
MYSQL 6.0

PHP 5.5
MYSQL 5.5

RHEL 7.9

PHP 7.0
MYSQL 6.0

RHEL 7.9

HyperV KVM VMWare

RHEL 7.9 Min 2GB of RAM

Virtual Machine

Developer Builds an Image

App1 Images
1. OS Lib
2. PHP & MYSQL Lib
3. App

App1 Images
1. Redhat OS Lib
2. PHP & MYSQL Lib
3. App Compiled

App2 Images
1. Centos OS Lib
2. PHP & MYSQL Lib
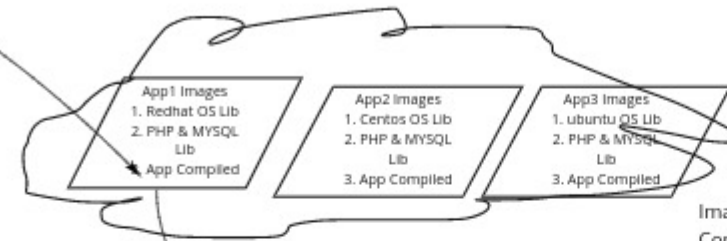3. App Compiled

App3 Images
1. ubuntu OS Lib
2. PHP & MYSQL Lib
3. App Compiled

Registry
1. Public: docker.io, quay.io
2. Subscription: registry.redhat.io
3. Private/Org: Internal Registry

Images: All Software app require to run for client
Container: Kind of Hardware which host image

1. OS Lib
2. PHP & MYSQL Lib
3. App Compiled Source Code

1. Ephemeral/Temp Data
2. Permanent Data/Database

App1
Image
RW
Layer

Container 1

App1
Image
RW
Layer

Container 2

App3
Image
RW
Layer

Container 2

CRI
Container Runtime Interface
Docker, Podman LXC RocketBridge

RHEL 7.9