

Rocket It



Agenda

- Linux Container
- App container specification
- Rkt
- Demo with Golang app

- *Part-time SSS*
- *Hardware Dev*
- *Golang - 2015*

Le Dong Thuc - 1990

- *Swimming*
- *Running*
- *Foods*

Linux Container

History

1979 - Chroot

2000 - FreeBSD Jails

2001 - Linux VServer

2004 - Solaris Containers

2005 - OpenVZ

2006 - Process Containers (Google)

History

2008 - LXC

2011 - Warden (CloudFoundry)

2013 - LMCTFY (Google)

2013 - Docker

2014 - Oh yeah... Rocket it

App container specification (APPC)



*APPC is an open specification that
defines several aspects of how to
run applications in containers*

APPC defines

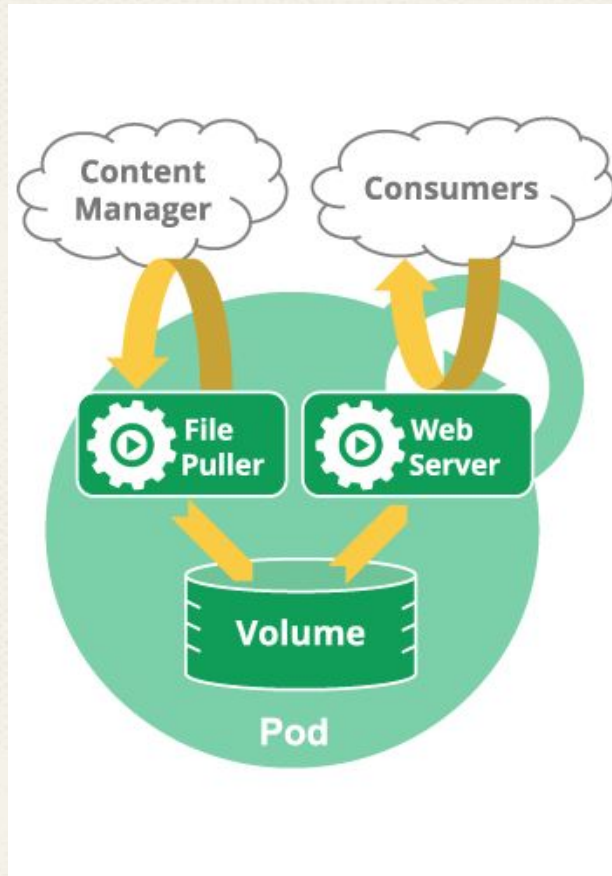
- Image format
- Runtime environment
- Discovery protocol

Image format

- Called ACI (application container image)
- Contains:
 - Files need to run application
 - Image Manifest
- Can created by acbuild, actool, goaci, docker2aci

Pod

- Grouping of one or more app images (ACIs), with some additional metadata optionally applied to the pod
- The basic unit of execution



Pod



Where's rkt?

Rkt

- Rkt is container runtime
- Portable image format
- Works with init systems (systemd, upstart)
- Rkt runs containers as un-privileged users

Install Rkt

(demo)

<https://github.com/coreos/rkt/releases>

Simple Image

(demo)

<https://github.com/appc/acbuild/releases>

<https://coreos.com/rkt/docs/latest/distributions.html>

<https://github.com/coreos/rkt/releases>