STATE OF CONTAINER ECOSYSTEM

OCI POV

http://bit.ly/2017-03-vb-containers

Vincent Batts @vbatts

```
$> finger $(whoami)
Login: vbatts                    Name: Vincent Batts
Directory: /home/vbatts          Shell: /bin/bash
Such mail.
Plan:
OHMAN
$> id -Gn
devel opencontainers docker appc redhat golang slackware
```


I'm so freakin' exicted!

CONTAINERS

CONTAINERS

(Cite: The Internet)

ECOSYSTEM

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(Cite: The Internet)

ECOSYSTEM

ECOSYSTEM

STANDARDS!

STANDARDS!

Standard

/ˈstandəd/

noun

something established by authority, custom, or general consent as a model or example
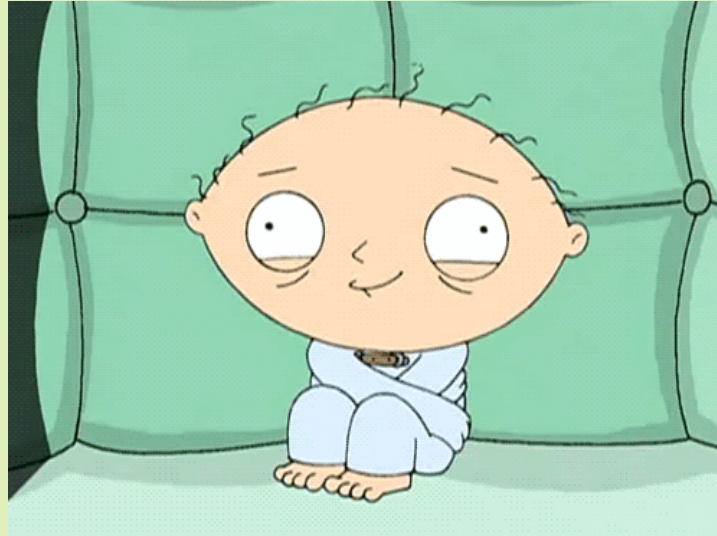
(Merriam-Webster)

STANDARDS!

STANDARDS!

Areas to Standardize:

STANDARDS!

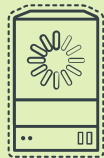**Areas to Standardize:**

- Packaging

STANDARDS!

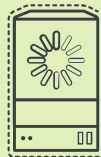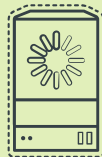**Areas to Standardize:**

- Packaging

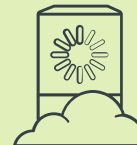- Runtime

STANDARDS!

Areas to Standardize:

- Packaging

- Runtime

- Networking

STANDARDS!

Areas to Standardize:

- Packaging
- Runtime
- Networking
- Cloud

RUNTIME - SPECIFICATIONS

OpenContainer Runtime-Spec
(github.com/opencontainers/runtime-spec)
- June 2015
- Specification
- Several Implementations, with runc as flagship
- Currently v1.0.0-rc5

NETWORK

Container Networking Interface

(CNI - github.com/containernetworking/cni)

- December 2014
- Specification and Library
- Simple to integrate with a process based workflow
- Used by RKT, kubernetes, OpenShift, Kurma, Cloud Foundry, RancherOS, usable with runC, and more

PACKAGING - IMPLIED STANDARD

Docker Image

- Docker specific format
- Tight coupling with daemon version
- Signing requires Docker notary integration
- Image naming is Docker specific and bound to registries

PACKAGING - SPECIFICATION

OpenContainer Image-Spec
(github.com/opencontainers/image-spec)

- April 2016
- Originated from Docker-1.10 and Registry v2 format
- Content addressibility
- Signable. Possibility to have naming and discovery.
- Currenly releasing v1.0.0-rc5
- Gaining support from rkt, flatpak, skopeo, cri-o, docker, docker-registry and more

CLOUD

Cloud Native Computing Foundation
(https://cncf.io)

- Kubernetes orchestration
- Prometheus monitoring
- gRPC, CoreDNS, Linkerd, OpenTracing, Fluentd
- with containerd and rkt proposed

CLOUD

Call to Action!

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Get involved in the conversations

Call to Action!

[Get involved in the conversations](#)

Ensure your container integration touchpoints stay generic

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PoC tooling for your integration

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PoC tooling for your integration

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THANKS!