A dive into Buildah

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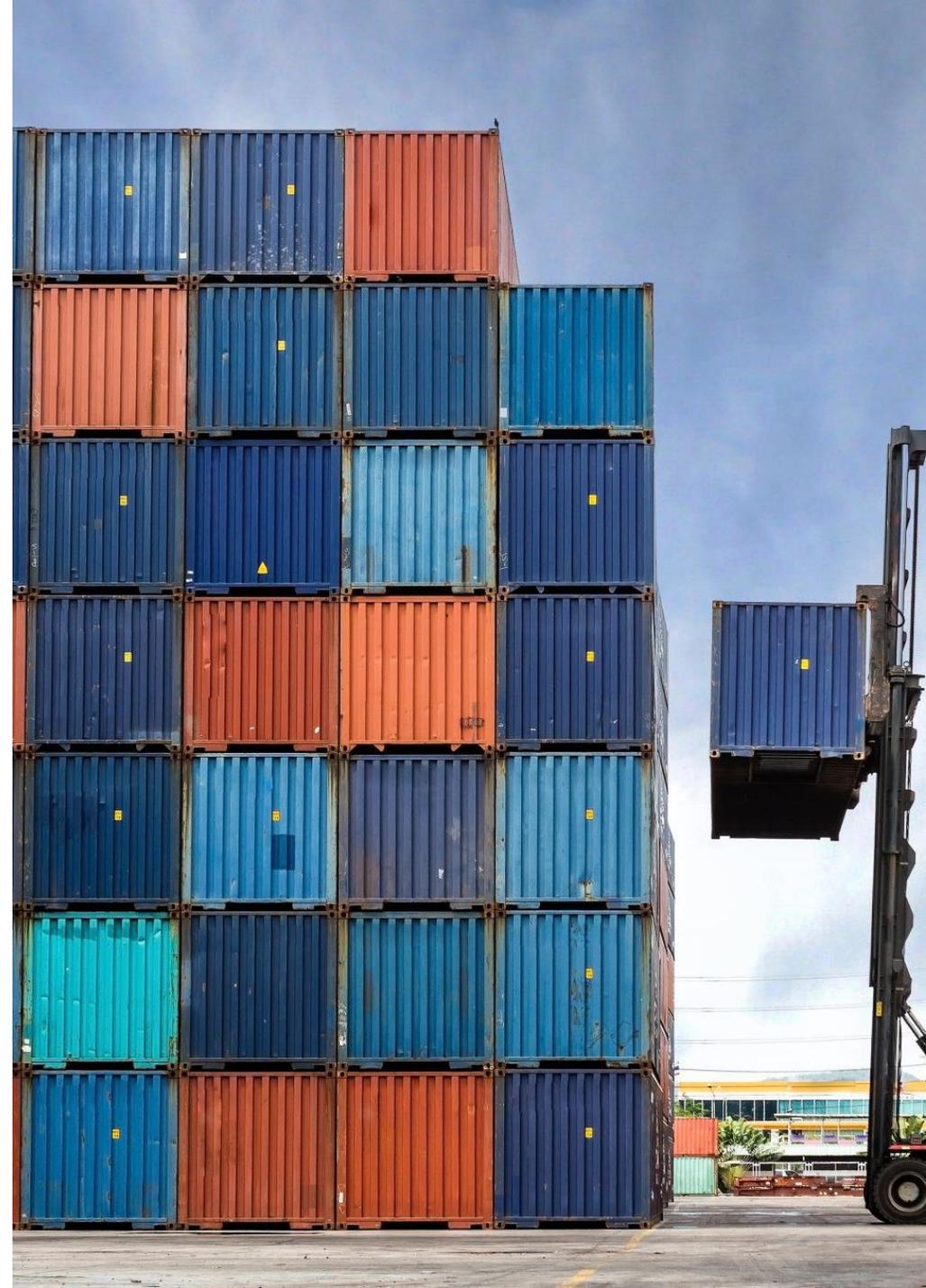
Intro

- Containerization, a brief intro

- Docker, a refresher

- The Open Container Initiative

- Buildah

A brief intro to containerization

- Encapsulating application code, files, libries and environment

- All it needs to run independent of the underlying infrastructure

- Runs all places

A Brief intro to Containerization

- Benefits:
  - Portability
  - Scalability
  - Fault tolerance
  - Agality
- Use Cases
  - Cloud migration
  - Microservices
  - Portability

A brief intro to containerization

- Docker

- OCI

- Kubernetes

- Podman

Buildah

- create a working container, either from scratch or using an image as a starting point
- create an image, either from a working container or via the instructions in a Dockerfile
- images can be built in either the OCI image format or the traditional upstream docker image format
- mount a working container's root filesystem for manipulation
- unmount a working container's root filesystem
- use the updated contents of a container's root filesystem as a filesystem layer to create a new image
- delete a working container or an image
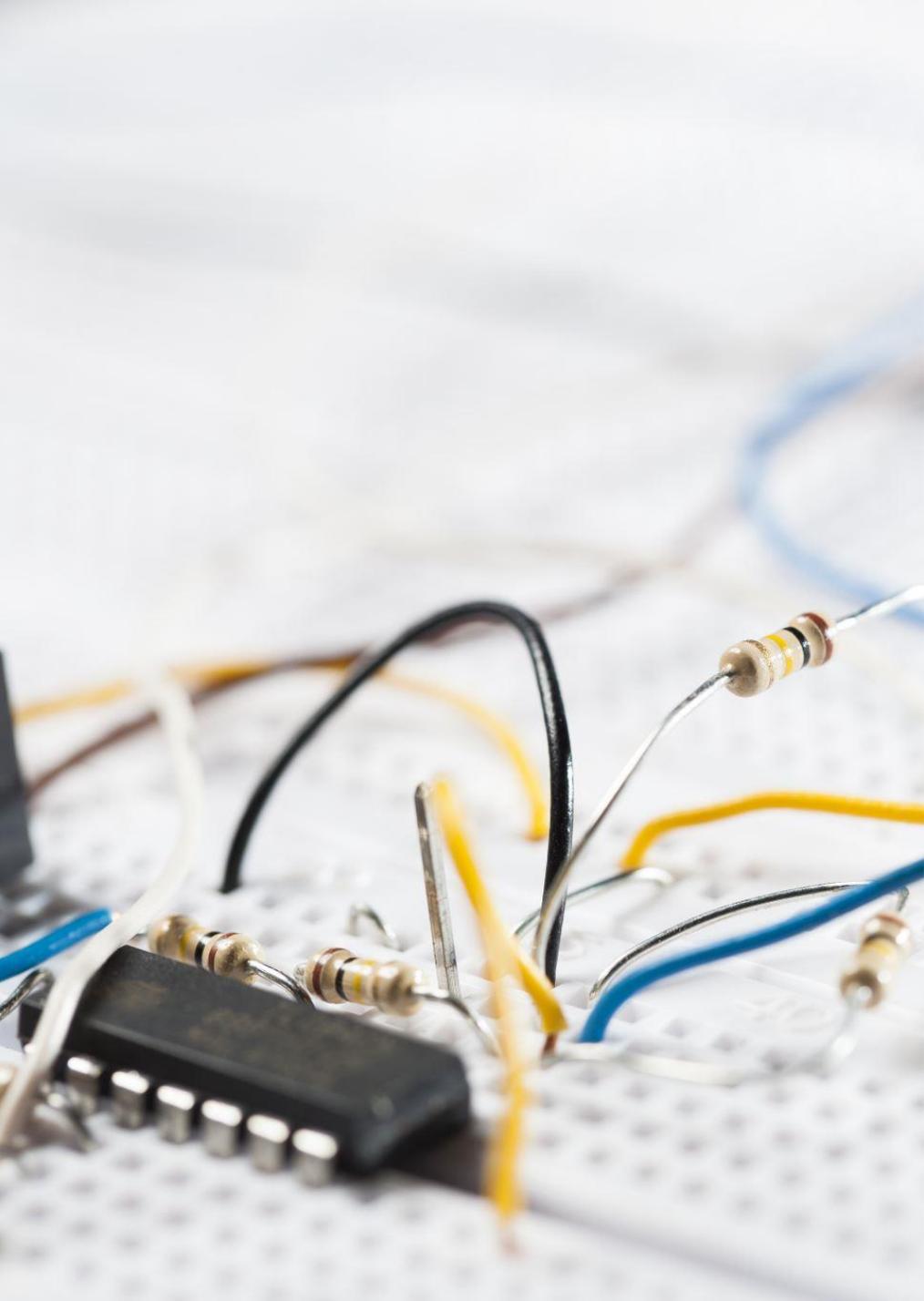- rename a local container

Understanding Buildah

- Purpose

- OCI

- Advantage

- Commands:
  - Buildah from
  - Buildah add
  - Buildah commit

Buildah in Action
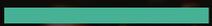
Comparing Buildah and Docker

- Lightweight

- Single purpose

- Compatibility with OCI image spec

- Command line and no dæmon

Common issues and concerns

- Image compatibility

- Command syntax

- Road less traveled

Brief review

- Where we have been

- Future

Questions?