



buildah

Valentin Rothberg <rothberg@redhat.com>
@vlntnrthbrg

What is Buildah?

- Buildah is a tool for **building** container images
- Parts of it's source code is used in podman-build
- Buildah's functionality goes beyond Dockerfiles
- Meant to be used as a low-level coreutils for building images
- Developed at github.com/containers/buildah
 - github.com/containers/image for image management
 - github.com/containers/storage for local storage (overlay, btrfs, vfs, etc.)



buildah

Buildah ABC

- Supports Dockerfiles
 - Extended to support `#include` directive to allow decomposition of Dockerfiles
 - `$ buildah build-using-dockerfile -f Dockerfile .`
 - Or shorter via `$ buildah bud ...`
- Can run rootless
- Daemon-less architecture like Podman
- Focus on OCI standards and open development
- Easy to integrate into K8s pipelines
 - Official images available at quay.io/buildah/stable:latest



buildah

Does Buildah have a scripting language?

Perhaps Buildahfile?



buildah

BASH - Buildah's ultimate scripting language



buildah

BASH - Buildah's ultimate scripting language

```

$ newcontainer=$(buildah from scratch)
$ scratchmount=$(buildah mount $newcontainer)
$ # manipulate rootfs of the build-container in $scratchmount
$ buildah unmount $newcontainer
$ buildah commit $newcontainer image:tag
```



buildah

Buildah Resources

- Upstream development and community
 - github.com/containers/buildah
 - #buildah of Freenode
 - buildah@lists.buildah.io
 - buildah.io
- Demos
 - github.com/containers/demos
- Available on *most* Linux distributions
 - Red Hat Enterprise Linux, Fedora
 - openSUSE, Manjaro, Gentoo
 - Archlinux, Ubuntu, Debian (soon)



buildah