

# Buildah

This cheat sheet covers the buildah command set for the buildah tool.

### **QUERIES**

#### buildah containers

list all working containers

buildah images

list all local images

buildah inspect container-id

displays details about a container

buildah inspect --type image image-id

displays details about an image

#### CREATING CONTAINERS

#### buildah from base

creates a new working container from a base image; the ID of the container is returned from this call

creates a new scratch image with no base; the name of the container is returned from this call (see "Scratch Containers" below for more information)

# **EDITING CONTAINERS**

# buildah run container-id-commands

runs the commands after the -- inside of the specified container (similar in concept to the RUN command in a Dockerfile)

#### buildah copy container-id local-file destination

copies a file to the specified destination within the given container

# buildah config flags container-id

modifies configuration values that will be saved to a container's image when it is created

Some example flags are as follows (the full list of configuration options can be found by running buildah config -h):

--cmd command-string sets the default command run for containers created from this image

--entrypoint entrypoint-

sets the entry point for containers created from this image string

--port port adds a port to be exposed by this image's containers

### buildah commit container-id image-name

creates a new image based on the current state of the provided container





# **DELETING CONTAINERS**

buildah rm container-id

deletes the given container; multiple container IDs may be specified, separated by spaces

buildah rm --all

delete all containers

# **DELETING IMAGES**

buildah rmi image-id

deletes the given image

buildah rmi --all

deletes all images

buildah rmi --prune

prunes dangling images

# **SCRATCH CONTAINERS**

Once a scatch container has been initialized, the commands under "Editing Containers" can also be used to manipulate them. The following commands are used to establish the set of required packages on the scratch image.

buildah from scratch

creates a new scratch image with no base; the name of the container is returned from this call

buildah mount container-id

mounts a scratch image to a directory on the local system, returning the full path to the directory

buildah unshare buildah mount container-id

mounts a scratch image for non-root users

dnf install --installroot scratch-mount-dir package-list --setopt install\_weak\_deps=false -y

example call to the dnf package manager to install packages to the directory to which the scratch container is mounted

buildah unmount container-id

unmount a previously mounted container

buildah commit container-id image-name

creates a new image based on the current state of the provided container, including the changes made while the container was mounted

# **USING DOCKERFILES**

buildah bud -t image-tag

creates an image from a Dockerfile in the current directory (bud is short for build-using-dockerfile which may also be used)

## INTERACTING WITH REGISTRIES





 $\hbox{buildah login } registry$ 

logs into the specified registry, such as docker.io or quay.io

buildah push *image-tag* 

pushes the specified image to a remote repository

buildah tag *existing-image-tag new-image-tag* 

create an additional image tag on an existing image



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