1 CheatSheet: CRI-O

CLOUD

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- PDF Link: cheatsheet-crio-A4.pdf, Category: Cloud
- ullet Blog URL: https://cheatsheet.dennyzhang.com/cheatsheet-crio-A4
- ullet Related posts: Docker CheatSheet, Kubectl CheatSheet, #denny-cheatsheets

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1.1 cri-o Basic

Name	Summary
cri-o	Another container runtime like dockerd. Initialized from Redhat
cri-o vs dockerd	
Reference	Docker CheatSheet, Kubectl CheatSheet

1.2 cri-o Components

Name	Summary	
crictl	For troubleshooting and working directly with CRI-O container engines	
runc	For running container images	
podman	CLI tool to manage pods and images	
Buildah	For building, pushing and signing container images	
Skopeo	For copying, inspecting, deleting, and signing images	
Quay	Builds, analyzes, distributes your container images. Like CNCF Harbor	

https://raw.githubusercontent.com/dennyzhang/cheatsheet.dennyzhang.com/master/cheatsheet-crio-A4/crio-arch.png

1.3 Run cri-o as k8s container engine

Na	ame	Summary
Ru	ın cri-o with minikube	minikube startnetwork-plugin=cnicontainer-runtime=cri-o
cri	-o conf file	/etc/crio/crio.conf
Co	onfigure cri-o image registry	registries = ['docker.io']
Re	estart cri-o	systemctl restart crio
Re	eference	Link: Using the CRI-O Container Engine

1.4 podman

Name	Summary
podman image registry file	/etc/containers/registries.conf
pull container	podman pull nginx:alpine
List all images	podman images
List all contianers	podman ps

1.5 podman online usage

```
$ sudo podman --help
```

WARN[0000] unable to find /etc/containers/registries.conf. some podman (image shortnames) commands may be lim

podman - manage pods and images

USAGE:

podman [global options] command [command options] [arguments...]

VERSION:

0.4.1

COMMANDS:

attach to a running container

Updated: December 30, 2018

commit Create new image based on the changed container build Build an image using instructions in a Dockerfile

create create but do not start a container

diff Inspect changes on container's file systems

Run a process in a running container exec

export Export container's filesystem contents as a tar archive

Show history of a specified image history list images in local storage images

import Import a tarball to create a filesystem image

display system information info

Displays the configuration of a container or image inspect

kill Kill one or more running containers with a specific signal

load load an image from docker archive login to a container registry login logout logout of a container registry logs Fetch the logs of a container

Mount a working container's root filesystem mount pause Pauses all the processes in one or more containers

List containers

List port mappings or a specific mapping for the container port

pull pull an image from a registry

push an image to a specified destination push

restart Restart one or more containers

podman rm will remove one or more containers from the host. The container name or ID of rm

This does not remove images. Running containers will not be removed without

path to the OCI-compatible binary used to run containers, default is /us

removes one or more images from local storage rmi

run a command in a new container run

Save image to an archive save search search registry for image Start one or more containers start

Display percentage of CPU, memory, network I/O, block I/O and PIDs for one or more cont stats

stop Stop one or more containers

Add an additional name to a local image tag Display the running processes of a container umount, unmount Unmount a working container's root filesystem Unpause the processes in one or more containers unpause

Display the PODMAN Version Information version

wait Block on one or more containers

help, h Shows a list of commands or help for one command

GLOBAL OPTIONS:

--cni-config-dir value path of the configuration directory for CNI networks

path of a config file detailing container server configuration options --config value, -c value

--conmon value path of the conmon binary

--cpu-profile value path for the cpu profiling results

--log-level value log messages above specified level: debug, info, warn, error (default), path to the root directory in which data, including images, is stored --root value --runroot value path to the 'run directory' where all state information is stored

--storage-driver value, -s value select which storage driver is used to manage storage of images and cont

--storage-opt value used to pass an option to the storage driver

--help, -h show help

--version, -v print the version

More Resources

--runtime value

https://github.com/containers

https://cri-o.io/

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