

containerd Cheatsheet

Connection

ctr --namespace=k8s.io --address=/run/containerd/containerd.sock

Connect to containerd socket with kubernetes namespace

export CONTAINERD_NAMESPACE=k8s.io

Set default namespace for containerd commands

export CONTAINERD_ADDRESS=/run/containerd/containerd.sock

Set default socket address for containerd commands

Container Management

ctr containers list

List all containers

ctr containers create <container-id> <image-ref> [flags]

Create a new container

ctr containers delete <container-id>

Delete a container

ctr containers info <container-id>

Display detailed information about a container

ctr containers label <container-id> [flags]

Set and clear container labels

Image Management

ctr images list

List all images

ctr images pull <image-ref>

Pull an image from a registry

ctr images push <image-ref> <target>

Push an image to a registry

ctr images remove <image-ref>

Remove an image

ctr images import <file>

Import images from a tar file

ctr images export <file> <image-ref> [<image-ref>, ...]

Export images to a tar file

ctr images mount <image-ref> <target>

Mount an image to a directory

ctr images unmount <target>

Unmount an image

Tasks

ctr tasks list

List all tasks (running containers)

ctr tasks start <container-id> [flags]

Start a container

ctr tasks pause <container-id>

Pause a container

ctr tasks resume <container-id>

Resume a paused container

ctr tasks kill [flags] <container-id> [signal]

Send a signal to a container

ctr tasks exec --exec-id <exec-id> <container-id> <command> [args...]

Execute a command in a container

ctr tasks ps <container-id>

List processes in a container

ctr tasks metrics <container-id>

Get container metrics

Snapshots

ctr snapshots list

List all snapshots

ctr snapshots prepare <key> [<parent>]

Prepare a snapshot

ctr snapshots view <key>

View snapshot details

ctr snapshots remove <key>

Remove a snapshot

ctr snapshots usage <key>

Get snapshot disk usage

Namespaces

ctr namespaces list

List all namespaces

ctr namespaces create <name>

Create a new namespace

ctr namespaces remove <name>

Remove a namespace

ctr namespaces label <name> <key>=<value>

Set a label on a namespace

Content

ctr content ls

List all content

ctr content get <digest>

Get content by digest

ctr content delete <digest>

Delete content by digest

ctr content ingest <file>

Ingest file content into containerd

Plugins

ctr plugins ls

List all plugins