**[rkt containter설치]**

**setenforce 0**

**wget** [**https://github.com/rkt/rkt/releases/download/v1.29.0/rkt-v1.29.0.tar.gz**](https://github.com/rkt/rkt/releases/download/v1.29.0/rkt-v1.29.0.tar.gz)

[root@centos-master ~]# **tar xzvf rkt-v1.29.0.tar.gz**

rkt-v1.29.0/

rkt-v1.29.0/manpages/

rkt-v1.29.0/manpages/rkt\_completion.1

rkt-v1.29.0/manpages/rkt\_run-prepared.1

rkt-v1.29.0/manpages/rkt\_image\_render.1

rkt-v1.29.0/manpages/rkt\_image.1

rkt-v1.29.0/manpages/rkt.1

rkt-v1.29.0/manpages/rkt\_image\_export.1

rkt-v1.29.0/manpages/rkt\_export.1

rkt-v1.29.0/manpages/rkt\_prepare.1

rkt-v1.29.0/manpages/rkt\_image\_rm.1

rkt-v1.29.0/manpages/rkt\_metadata-service.1

rkt-v1.29.0/manpages/rkt\_list.1

rkt-v1.29.0/manpages/rkt\_fetch.1

rkt-v1.29.0/manpages/rkt\_version.1

rkt-v1.29.0/manpages/rkt\_rm.1

rkt-v1.29.0/manpages/rkt\_cat-manifest.1

rkt-v1.29.0/manpages/rkt\_config.1

rkt-v1.29.0/manpages/rkt\_image\_verify.1

rkt-v1.29.0/manpages/rkt\_image\_list.1

rkt-v1.29.0/manpages/rkt\_gc.1

rkt-v1.29.0/manpages/rkt\_status.1

rkt-v1.29.0/manpages/rkt\_image\_extract.1

rkt-v1.29.0/manpages/rkt\_image\_cat-manifest.1

rkt-v1.29.0/manpages/rkt\_trust.1

rkt-v1.29.0/manpages/rkt\_image\_gc.1

rkt-v1.29.0/manpages/rkt\_api-service.1

rkt-v1.29.0/manpages/rkt\_enter.1

rkt-v1.29.0/manpages/rkt\_run.1

rkt-v1.29.0/manpages/rkt\_stop.1

rkt-v1.29.0/init/

rkt-v1.29.0/init/systemd/

rkt-v1.29.0/init/systemd/rkt-metadata.socket

rkt-v1.29.0/init/systemd/rkt-gc.service

rkt-v1.29.0/init/systemd/rkt-api-tcp.socket

rkt-v1.29.0/init/systemd/rkt-gc.timer

rkt-v1.29.0/init/systemd/rkt-api.service

rkt-v1.29.0/init/systemd/rkt-metadata.service

rkt-v1.29.0/init/systemd/tmpfiles.d/

rkt-v1.29.0/init/systemd/tmpfiles.d/rkt.conf

rkt-v1.29.0/stage1-coreos.aci

rkt-v1.29.0/stage1-kvm.aci

rkt-v1.29.0/scripts/

rkt-v1.29.0/scripts/setup-data-dir.sh

rkt-v1.29.0/bash\_completion/

rkt-v1.29.0/bash\_completion/rkt.bash

rkt-v1.29.0/rkt

rkt-v1.29.0/stage1-fly.aci

[root@centos-master ~]# **cd rkt-v1.29.0**

[root@centos-master rkt-v1.29.0]# **./rkt help**

NAME:

rkt - rkt, the application container runner

USAGE:

rkt [command]

VERSION:

1.29.0

COMMANDS:

api-service Run API service (experimental)

cat-manifest Inspect and print the pod manifest

completion Output shell completion code for the specified shell

config Print configuration for each stage in JSON format

enter Enter the namespaces of an app within a rkt pod

export Export an app from an exited pod to an ACI file

fetch Fetch image(s) and store them in the local store

gc Garbage collect rkt pods no longer in use

image cat-manifest Inspect and print the image manifest

image export Export a stored image to an ACI file

image extract Extract a stored image to a directory

image gc Garbage collect local store

image list List images in the local store

image render Render a stored image to a directory with all its dependencies

image rm Remove one or more images with the given IDs or image names from the local store

image verify Verify one or more rendered images in the local store

list List pods

metadata-service Run metadata service

prepare Prepare to run image(s) in a pod in rkt

rm Remove all files and resources associated with an exited pod

run Run image(s) in a pod in rkt

run-prepared Run a prepared application pod in rkt

status Check the status of a rkt pod

stop Stop a pod

trust Trust a key for image verification

version Print the version and exit

help Help about any command

DESCRIPTION:

A CLI for running app containers on Linux.

To get the help on any specific command, run "rkt help command".

OPTIONS:

--debug[=false] print out more debug information to stderr

--dir=/var/lib/rkt rkt data directory

--insecure-options=none comma-separated list of security features to disable. Allowed values: "none", "image", "tls", "ondisk", "http", "pubkey", "capabilities", "paths", "seccomp", "all-fetch", "all-run", "all"

--local-config=/etc/rkt local configuration directory

--system-config=/usr/lib/rkt system configuration directory

--trust-keys-from-https[=false] automatically trust gpg keys fetched from https

--user-config= user configuration directory

[root@centos-master rkt-v1.29.0]# **groupadd rkt**

[root@centos-master rkt-v1.29.0]# **export WHOAMI=$(whoami); sudo gpasswd -a $WHOAMI rkt**

Adding user root to group rkt

[root@centos-master rkt-v1.29.0]# **cd scripts/**

[root@centos-master scripts**]# ./setup-data-dir.sh**

rkt:x:1001:root

/usr/bin/systemd-tmpfiles

[root@centos-master scripts]# **cd ..**

[root@centos-master rkt-v1.29.0]# **./rkt run --interactive quay.io/coreos/alpine-sh**

/ #

/ # ps

PID USER TIME COMMAND

1 root 0:00 /usr/lib/systemd/systemd --default-standard-output=tty --log-target=null --show-status=0

2 root 0:00 /usr/lib/systemd/systemd-journald

6 root 0:00 /bin/sh -c /bin/sh

12 root 0:00 /bin/sh

13 root 0:00 ps

**CTRL+]]] -> 컨테이터를 종료하고 빠져나감**

/ # Container rkt-ec9a2ea1-8bd7-409b-99e1-3119af8214bb terminated by signal KILL.

[root@centos-master rkt-v1.29.0]# **./rkt run --interactive docker://ubuntu --insecure-options=image**

root@rkt-a81fc2a9-89a3-42cf-b3fc-863e52509713:/# **ps**

PID TTY TIME CMD

6 console 00:00:00 bash

16 console 00:00:00 ps

root@rkt-a81fc2a9-89a3-42cf-b3fc-863e52509713:/# **exit**

exit

[root@centos-master rkt-v1.29.0]# **./rkt image list**

ID NAME SIZE IMPORT TIME LAST USED

sha512-2e6e6329a5e4 coreos.com/rkt/stage1-coreos:1.0.0 145MiB 38 minutes ago 38 minutes ago

sha512-2222d0a86708 quay.io/coreos/alpine-sh:latest 10MiB 38 minutes ago 38 minutes ago

sha512-ea915c015599 registry-1.docker.io/library/ubuntu:latest 192MiB 34 minutes ago 34 minutes ago

sha512-e50b77423452 coreos.com/rkt/stage1-coreos:1.29.0 211MiB 17 minutes ago 17 minutes ago

[root@centos-master rkt-v1.29.0]# **./rkt list**

UUID APP IMAGE NAME STATE CREATED STARTED NETWORKS

1873ee39 alpine-sh quay.io/coreos/alpine-sh:latest exited 31 minutes ago 31 minutes ago

a81fc2a9 ubuntu registry-1.docker.io/library/ubuntu:latest exited 3 minutes ago 3 minutes ago

ec5943ed ubuntu registry-1.docker.io/library/ubuntu:latest exited 28 minutes ago 28 minutes ago

ec9a2ea1 alpine-sh quay.io/coreos/alpine-sh:latest exited 11 minutes ago 11 minutes ago

f0e0a20f alpine-sh quay.io/coreos/alpine-sh:latest exited 32 minutes ago 32 minutes ago

[root@centos-master rkt-v1.29.0]# **vi hello.go**

package main

import (

"log"

"net/http"

)

func main() {

http.HandleFunc("/", func(w http.ResponseWriter, r \*http.Request) {

log.Printf("request from %v\n", r.RemoteAddr)

w.Write([]byte("hello\n"))

})

log.Fatal(http.ListenAndServe(":5000", nil))

}

[root@centos-master rkt-v1.29.0]# **CGO\_ENABLED=0 GOOS=linux go build -o hello -a -tags netgo -ldflags '-w' .**

[root@centos-master rkt-v1.29.0]# **file hello**

hello: ELF 64-bit LSB executable, x86-64, version 1 (SYSV), statically linked, not stripped

[root@centos-master rkt-v1.29.0]# **ldd hello**

not a dynamic executable

[root@centos-master rkt-v1.29.0]# **mv hello acbuild-v0.4.0**

[root@]# **wget https://github.com/containers/build/releases/download/v0.4.0/acbuiv0.4.0.tar.gz**

[root@centos-master rkt-v1.29.0]# **tar xvf acbuild-v0.4.0.tar.gz**

[root@centos-master rkt-v1.29.0]# **cd acbuild-v0.4.0/**

[root@centos-master acbuild-v0.4.0]# **./acbuild begin**

[root@centos-master acbuild-v0.4.0]# **./acbuild set-name example.com/hello**

[root@centos-master acbuild-v0.4.0]# **./acbuild copy hello /bin/hello**

[root@centos-master acbuild-v0.4.0]# **./acbuild set-exec /bin/hello**

[root@centos-master acbuild-v0.4.0]# **./acbuild write hello-latest-linux-amd64.aci**

[root@centos-master acbuild-v0.4.0]# **./acbuild end**

[root@centos-master acbuild-v0.4.0]# **ls -al**

total 47420

drwxr-xr-x. 2 choga88 users 114 Nov 24 00:38 .

drwxr-xr-x. 7 root root 219 Nov 24 00:37 ..

-rwxr-xr-x. 1 choga88 users 14236168 Aug 10 2016 acbuild

-rwxr-xr-x. 1 choga88 users 14236168 Aug 10 2016 acbuild-chroot

-rwxr-xr-x. 1 choga88 users 14236168 Aug 10 2016 acbuild-script

-rwxr-xr-x. 1 root root 4279408 Nov 24 00:24 hello

-rw-r--r--. 1 root root 1564005 Nov 24 00:38 **hello-latest-linux-amd64.aci**

[root@centos-master acbuild-v0.4.0]# **cd ../**

[root@centos-master rkt-v1.29.0]# **./rkt run --insecure-options=image --net=host acbuild-v0.4.0/hell o-latest-linux-amd64.aci**

**[ 5770.056353] hello[6]: 2017/11/24 05:51:36 request from [::1]:55950**

**[다른 터미널 open]**

[root@centos-master rkt-v1.29.0]# **./rkt list**

UUID APP IMAGE NAME STATE CREATED STARTED NETWORKS

**0379013e hello example.com/hello running 8 minutes ago 8 minutes ago**

[root@centos-master rkt-v1.29.0]# **curl http://localhost:5000**

**hello**