rkt Deep Dive



Interesting technical aspects of rkt

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About us

- Living in Berlin
- Kinvolk co-founders
- Worked a lot on rkt and rktlet
- Currently maintainers of rkt and rktlet



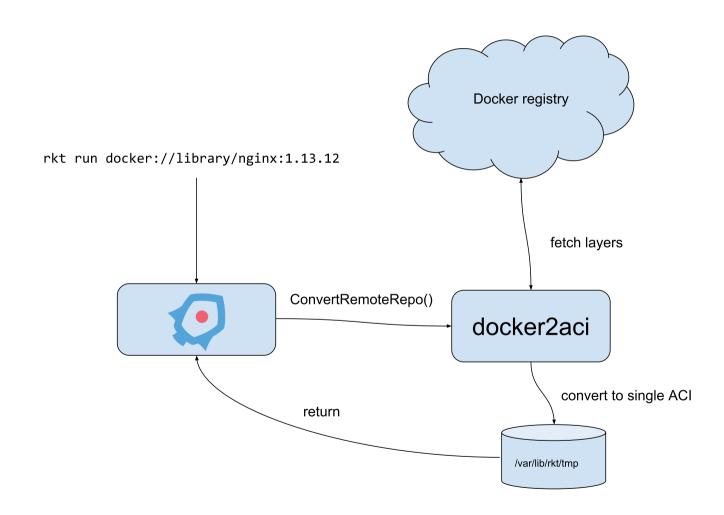
Cgroup mounts

Now (v1.30.0)

Before v1.23.0



Running OCI images





CLI flags -> systemd Directives

Flag	systemd Directive
caps-{remove,retain}=	CapabilityBoundingSet=
cpu=	CPUQuota=
cpu-shares=	CPUShares=
exec=	ExecStart=
group=	Group=
memory=	MemoryLimit=

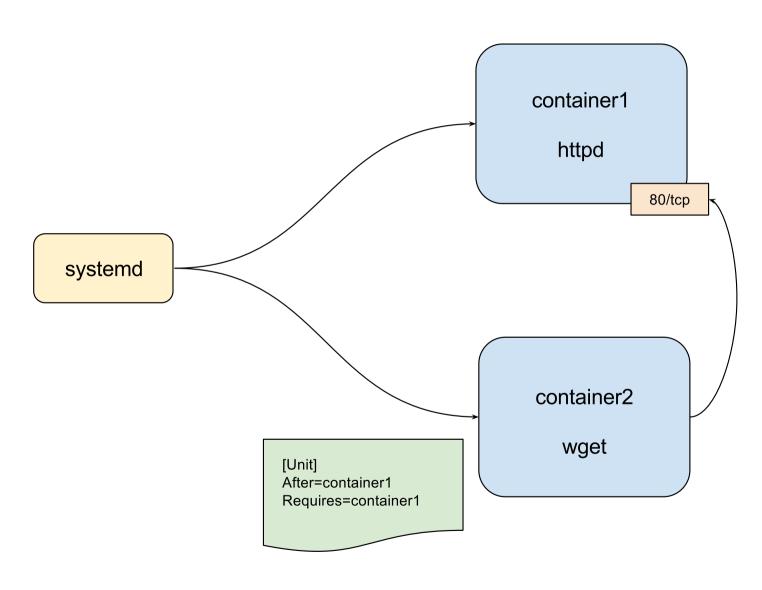


CLI flags -> systemd Directives (2)

Flag	systemd Directive
oom-score-adj=	OOMScoreAdjust=
readonly-rootfs=	ReadOnlyDirectories=
seccomp=	SystemCallFilter=
private-users	private-users=(nspawn)
supplementary-gids=	SupplementaryGroups=
user=	User=
working-dir=	WorkingDirectory=

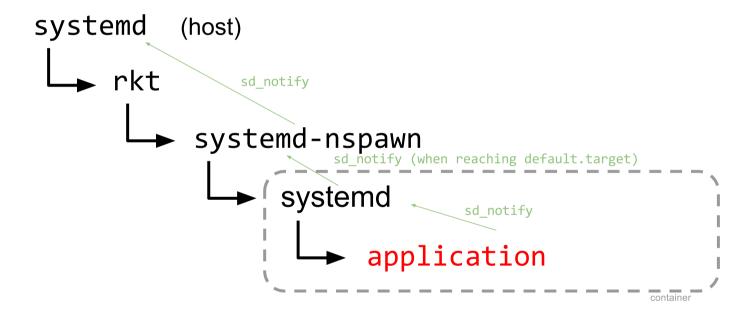


SD Notify usecase





SD Notify propagation





Thank You!

Questions?

