

Hiding in the Dark

Dan Kohn, CNCF Executive Director

@dankohn1

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CLOUD NATIVE
COMPUTING FOUNDATION





kubernetes



Prometheus



envoy



CoreDNS



containerd



fluentd



JAEGER



Vitess



OPENTRACING



gRPC



CNI



notary



TUF

NATS



LINKERD



HELM



ROOK



HARBOR



etcd



Open Policy Agent



cri-o



KV



cloudevents

cloud native definition



CLOUD NATIVE
COMPUTING FOUNDATION





state-of-the-art patterns



accessible for everyone

parable



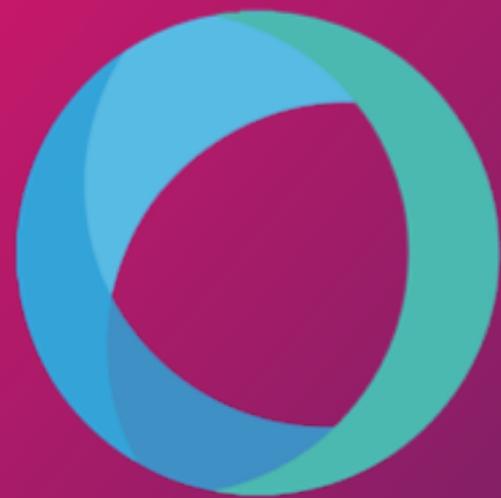












JUPITER™



kubernetes









**DON'T MISS
OUT!**



**END-OF-SEASON
OUTWEAR
SALE!**

Göteborg

Dublin

London

Glasgow

Toronto

MINECRAFT





Sun Mon Tues Wed Thur Fri Sat

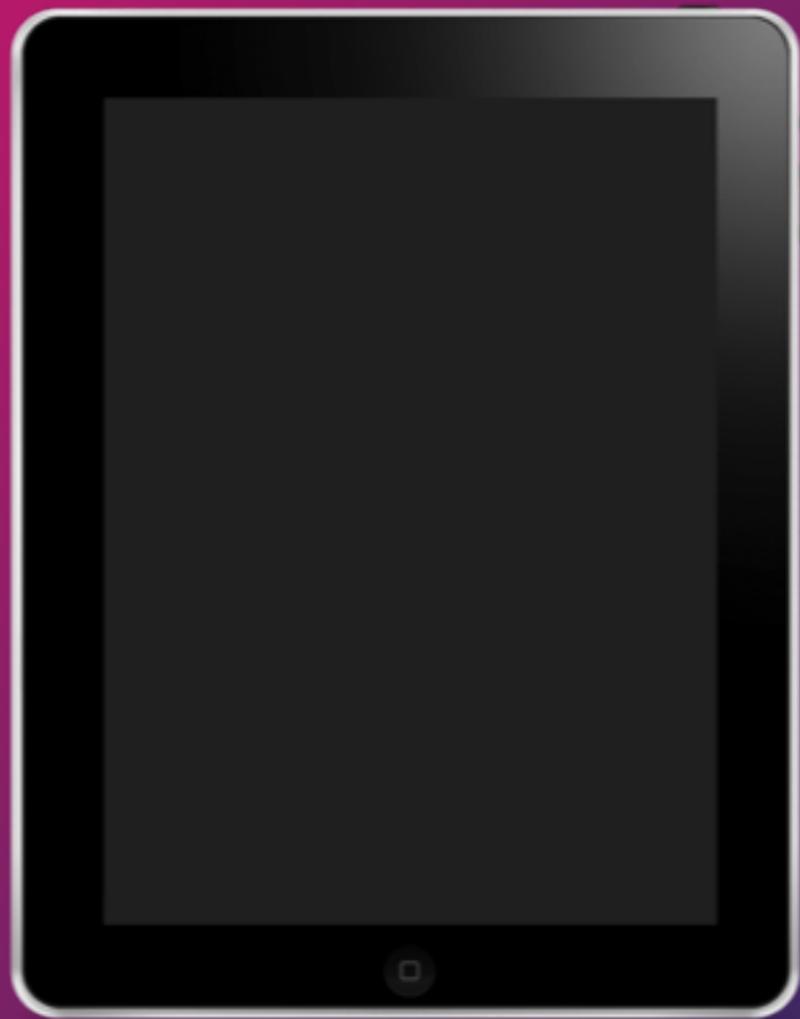
NOTES						









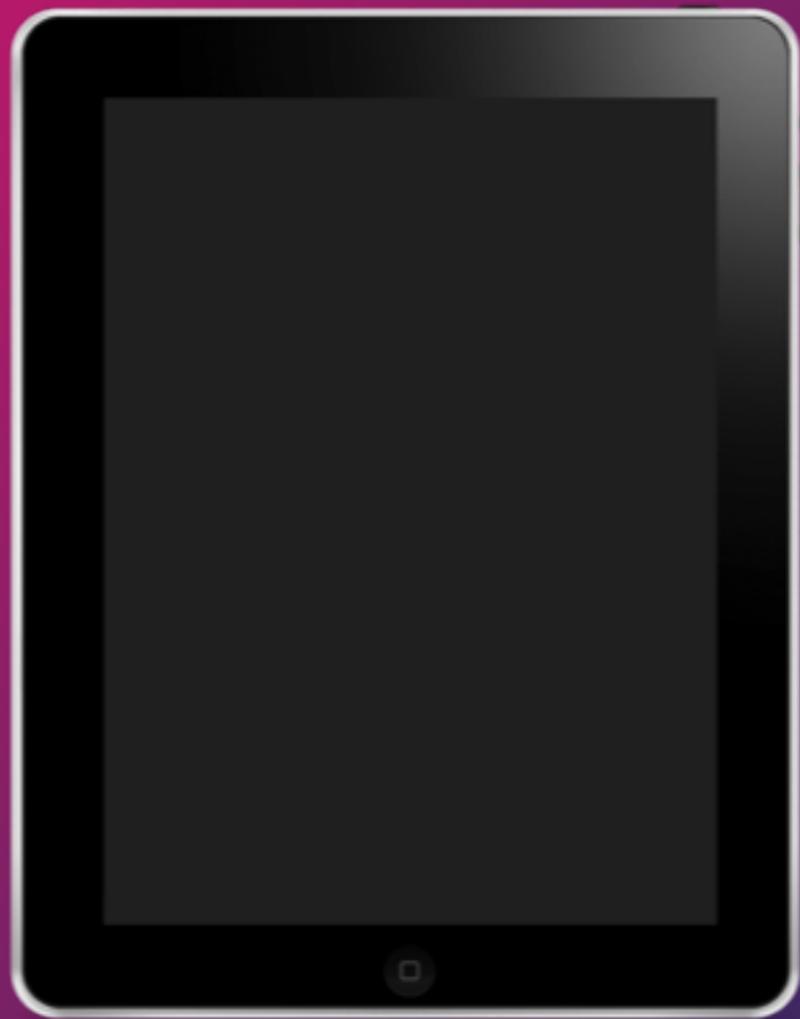


“Why are you staring at a black screen?”



“I don't see any zombies”







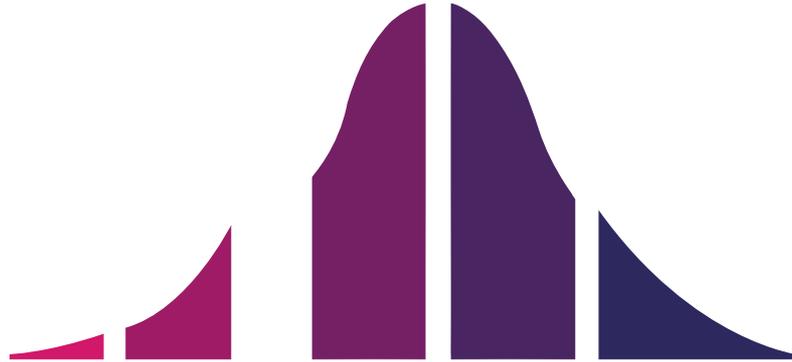






metaphor

2nd grader → most enterprises



Most Enterprises



zombies → software failures



hiding in a hole → precautionary practices

long release cycles

infrequent dependency updates

manual quality assurance







irrationally



precautionary





~~exempt~~



CLOUD NATIVE
COMPUTING FOUNDATION

 THE **LINUX** FOUNDATION





Let's 
Encrypt

CLAbot





sibling

4th grader > 2nd grader



development

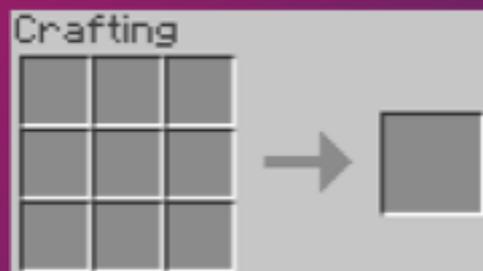
operations

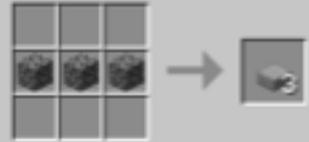
developing + operations = DevOps

mine + craft = Minecraft

mining







simple









Crafting









complex







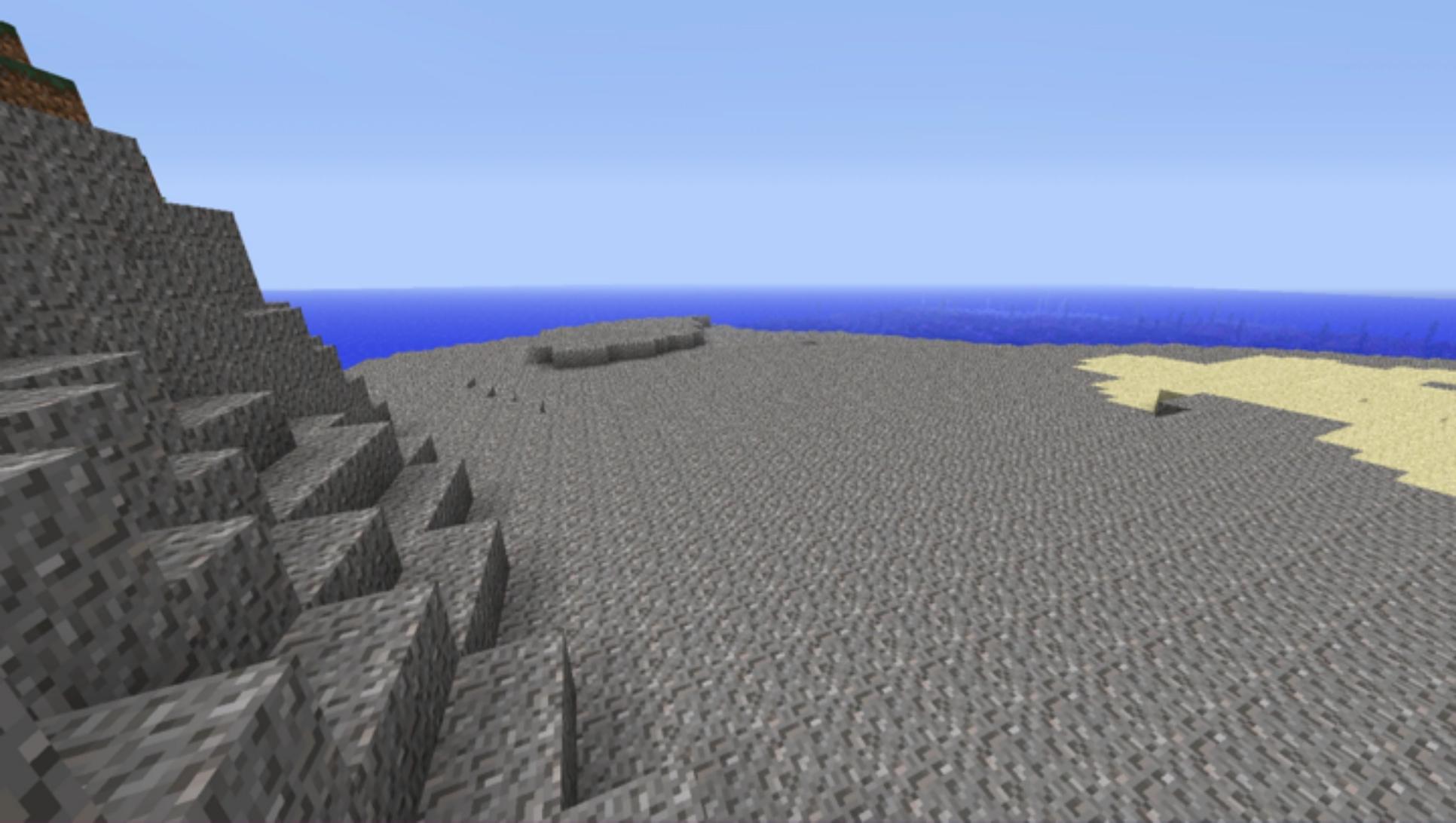


















Finally









circular dependencies

lesson

MINECRAFT



simple



complex





KubeCon



CloudNativeCon

North America 2019

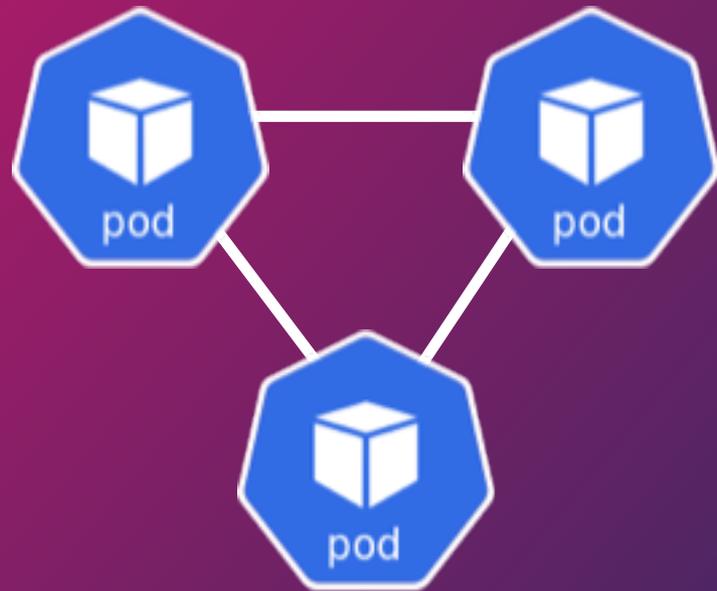
same



kubernetes



iptables



iptables



networking

ipfw



ipfwadm

Internet Protocol Firewall Administrator

complete

easier

ipchains

iptables

The logo for netfilter is contained within a white rounded rectangular border. The word "netfilter" is written in a bold, lowercase, sans-serif font. The letters are white with a vertical gradient, appearing lighter at the top and darker at the bottom.

netfilter

firewalling, NAT and packet mangling for linux

reimplemented

eBPF



eBPF







kubernetes



advanced



cgroups

DNS



Raft





kubernetes









kubernetes





simpler

powerful



kubernetes







construct

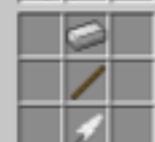
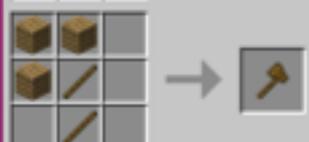
US



4th graders

2nd graders







KubeCon



CloudNativeCon

first-timers?

2nd graders

benefits?

two

first





4th graders

2nd graders



job offers

second

2nd grader → 4th grader

community



people

contribute



5 years old





