



알면 좋은 쿠버네티스 그 이상의 이야기

2023. 7

쿠버네티스 코리아 그룹

- ✓ 쿠버네티스 코리아 그룹 소개
- ✓ 쿠버네티스 철학
- ✓ CNCF 와 관련 프로젝트
- ✓ KubeCon & CloudNativeCon 이 알려주는 트렌드
- ✓ KCD (Kubernetes Community Days)

1. Facebook 그룹 참여

검색어: **Kubernetes Korea Group**

url - <https://www.facebook.com/groups/k8skr>

2. Discord 참여

3. CNCF - KCD Korea 참여

2. Discord 참여

첫째, Discord 다운로드
(App Store, Google Paly)

둘째, 우측 QR 코드로 대화 참여



3. KCD (Kubernetes Community Days) Korea 참여

1. 홈페이지 접속 - <https://community.cncf.io/kcd-korea/>
2. linux foundation 회원 가입
3. kcd-korea 에 가입

- ✓ **Kubernetes API 는 declarative 이다 (not imperative)**
 - desire state : 모든 component 가 desire state 를 맞추려고 함
 - control plane 이 worker node 에 명령하지 않음
- ✓ **Kubernetes control plane 은 transparent 하다 (모든 API 는 노출되어 있다)**
 - 모든 component 는 API Server 를 통해서 정보를 안다
 - Level Triggered (상태값) vs Edge Triggered (값의 변경) ex) Scheduling
 - simpler, easily recovery (simple control plane, no SPOF), composable, extensible
- ✓ **Fetching Kubernetes API Data**
 - Secrets, ConfigMap, DownwardAPI
- ✓ **Workload portability**
 - CSI (Container Storage Interface), VolumeAttachment (v1.13 부터), PVC, PV

CNCF 와 프로젝트들 – Graduated Projects



Continuous Integration & Delivery



Container Runtime



CoreDNS

Coordination & Service Discovery



Service Proxy



Coordination & Service Discovery



Logging



Continuous Integration & Delivery



HARBOR

Container Registry



Application Definition & Image Build



Tracing



kubernetes

Scheduling & Orchestration



LINKERD

Service Mesh



Open Policy Agent

Security & Compliance



Prometheus

Monitoring



ROOK

Cloud Native Storage



Key Management



SPIRE

Key Management



Security & Compliance























Database



Database

CNCF 와 프로젝트들 – Incubating Projects

 Backstage	 Buildpacks.io	 CERT MANAGER	 Chaos Mesh	 cilium
Application Definition & Image Build	Application Definition & Image Build	Security & Compliance	Chaos Engineering	Cloud Native Network
 Cloud Custodian	 cloudevents	 CNI	 CONTOUR	 cortex
Automation & Configuration	Streaming & Messaging	Cloud Native Network	Service Proxy	Monitoring
 cri-o	 Crossplane	 CubeFS	 dapr	 Dragonfly
Container Runtime	Scheduling & Orchestration	Cloud Native Storage	Framework	Container Registry
 EMISSARY INGRESS	 Falco	 gRPC	 in-toto	 Istio
API Gateway	Security & Compliance	Remote Procedure Call	Security & Compliance	Service Mesh

CNCF 와 프로젝트들 – Incubating Projects



Installable Platform



keptn

Continuous Integration & Delivery



Security & Compliance



Knative

Installable Platform



KubeEdge

Automation & Configuration



KubeVela

Application Definition & Image Build



KubeVirt

Application Definition & Image Build



Security & Compliance



Chaos Engineering



Cloud Native Storage



Streaming & Messaging



Security & Compliance



OpenKruise

Continuous Integration & Delivery



Monitoring



Tracing



Application Definition & Image Build

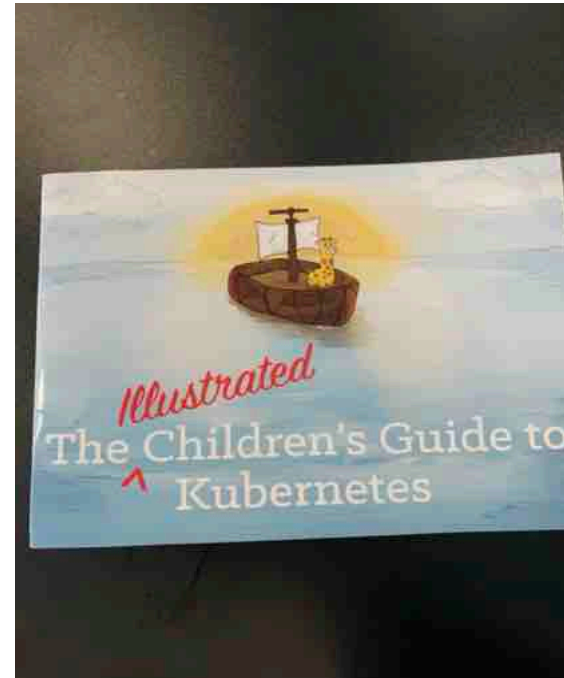
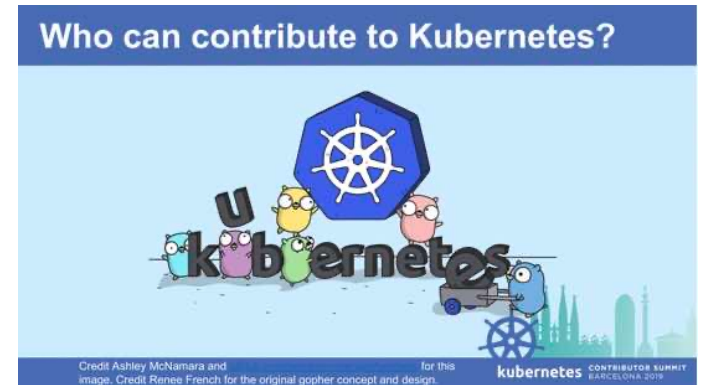


Monitoring



Scheduling & Orchestration

KubeCon 2019 Barcelona



KubeCon 2019 San Diego

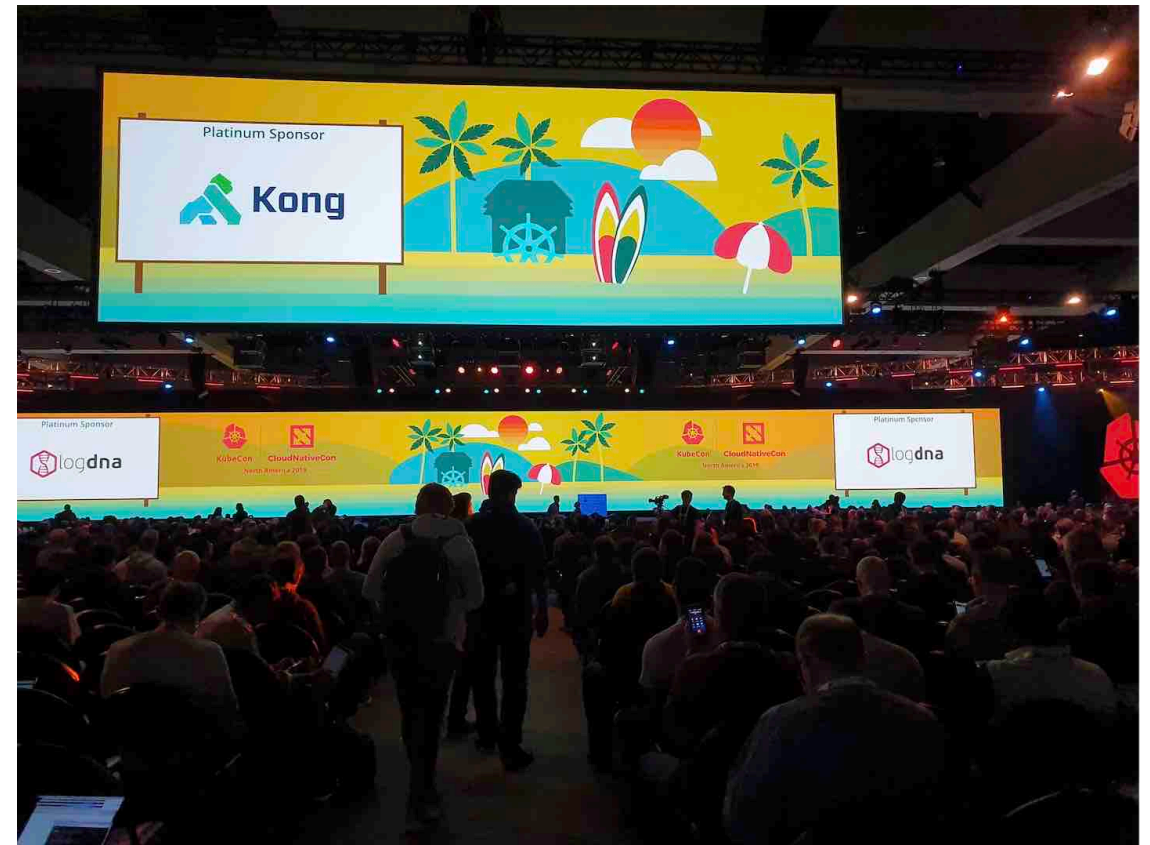


SLIDES: <http://bit.ly/summit-welcome>
#contributor-summit
Twitter: #kcsna19

kubernetes CONTRIBUTOR SUMMIT
SAN DIEGO 2019

k8s-contrib-summit-welcome.md

The slide features a blue ship's wheel icon on the left and a stylized orange city skyline on the right. A blue banner at the bottom contains the text 'kubernetes CONTRIBUTOR SUMMIT SAN DIEGO 2019'. Below the banner is the filename 'k8s-contrib-summit-welcome.md'.



2018년 – Operator 패턴, Cluster API, eBPF

2019년 – Security (OPA), MLOps (Kubeflow), CI/CD (Argo)

2020년 – OpenTelemetry, Service Mesh

2021년 – Multi Cluster

2022년 – Security

2023년 – Community

KubeCon & CloudNativeCon 2022 EU 현황

Demographics

REGISTERED

18,550

45.2% MEN
6.5% WOMEN
0.4% NON-BINARY/OTHER GENDERS
47.9% PREFER NOT TO ANSWER

IN PERSON

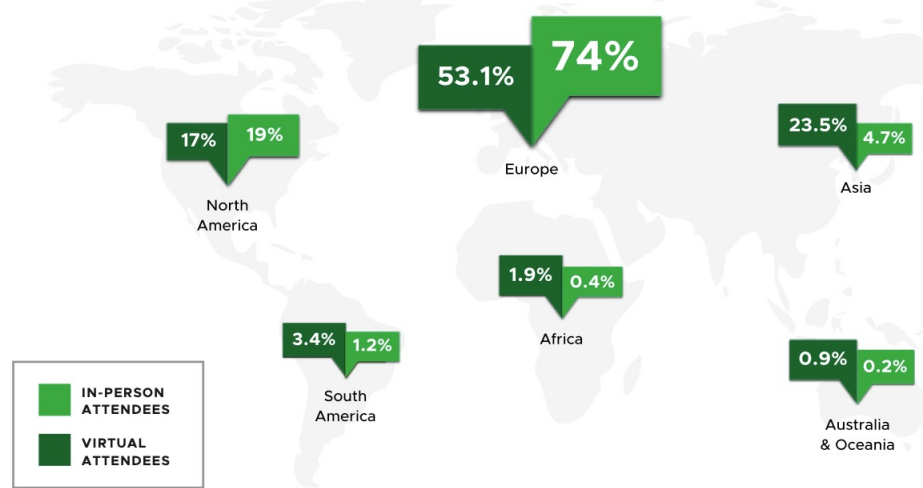
7,084

FIRST TIMERS

65%



Attendee Geography



Top Three Attendee Job Functions

Job Function	Count
DEVOPS / SRE / SYSADMIN	6,395
DEVELOPER	3,867
ARCHITECT	3,127

Content



17
KEYNOTES



146
BREAKOUT SESSIONS



76
MAINTAINER SESSIONS



1,178
CFP SUBMISSIONS



12
CNCF-HOSTED CO-LOCATED EVENTS



243
SPEAKERS

KubeCon & CloudNativeCon 2022 NA 현황

Demographics

REGISTERED

16,986

43.5% MEN
8.50% WOMEN
0.42% NON-BINARY/OTHER GENDERS
47.5% PREFER NOT TO ANSWER

IN PERSON

7,403

FIRST TIMERS

61%



Content



18

KEYNOTES



176

BREAKOUT SESSIONS



90

MAINTAINER SESSIONS



1,551

CFP SUBMISSIONS



15

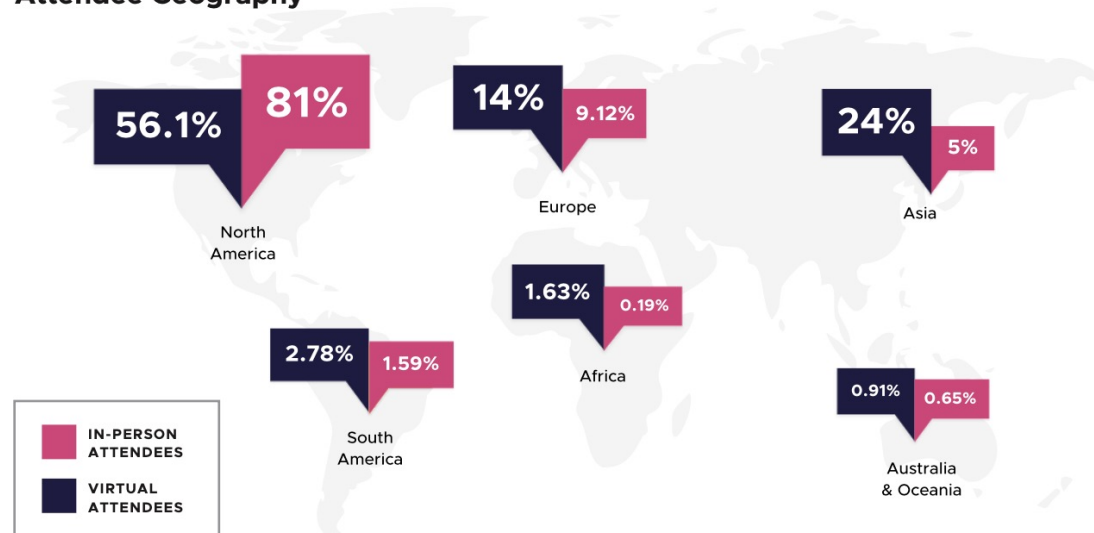
CNCF-HOSTED CO-LOCATED EVENTS



531

SPEAKERS

Attendee Geography



Top Three Attendee Job Functions

DEVOPS / SRE / SYSADMIN

4,557

DEVELOPER

3,378

ARCHITECT

2,777

KCD (Kubernetes Community Days)

1회 Meetup: 2016년 10월 6일(목) - 10여명

2회 Meetup: 2016년 12월 22일(목) - 10여명

3회 Meetup: 2017년 4월 19일(수) - 20여명

4회 Meetup: 2018년 3월 26일(월) - 60여명

5회 Meetup: 2018년 8월 21일(화) - 70여명

6회 Meetup: 2018년 11월 23일(금) - 300명

7회 Meetup: 2019년 3월 7일(목) - 145명



1day, 114개회사, T타워&삼화타워



KCD (Kubernetes Community Days)

OpenInfra &
Cloud Native Days
2019

CNCG (Cloud Native
Community Groups)
Seoul 2020

KCD (Kubernetes
Community Day)
Korea 2021

OpenInfra &
Cloud Native Day
Korea 2022

Kubernetes
Community Days &
Openinfra, Ceph
Korea 2023

2019. 7.18~19
T타워, 페럼타워,
삼화타워
1000+

2020. 9. 24
온라인 컨퍼런스
1000+

2021. 9. 9
온라인 컨퍼런스
1000+

2022. 11. 01
코엑스 그랜드볼룸
1000+

2023. 7. 3
코엑스 그랜드볼룸
1000+

지역(Local) 행사로 CNCF 가 공식 후원

KCD Korea Homepage -> KCD Korea event 생성

CLOUD NATIVE
COMMUNITY GROUPS

Upcoming KCDs ▾ Chapters Events Apply ▾ 🔍

Kubernetes Community Days & Openinfra, Ceph Day Korea 2023

코엑스 그랜드볼룸 - 강남구 영동대로 513(삼성동) 서울특별시, 06164

KCD Korea

Mon, Jul 3, 9:30 AM (KST)

f t in e

티켓 구매가 마감되었습니다.

In-person event

GET TICKETS

- About
- KCD South Korea
- KCD Munich
- KCD Guatemala
- KCD Chennai
- KCD Taiwan
- KCD Australia
- KCD Austria
- KCD Texas
- KCD UK

Q & A