

A Guided Journey of Cloud Native, featuring Monzo

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Agenda

1. What is the Cloud Native Computing Foundation?
2. A journey through cloud native
3. Cloud native in real life at Monzo



About Cheryl

Director of Ecosystem, CNCF

Cloud Native London (tonight!)

StorageOS, Google, Cambridge

@oicheryl



What is the CNCF?

The CNCF's mission

Make cloud native computing **ubiquitous**

... by fostering and sustaining an ecosystem of **open source, vendor-neutral projects**



In practice

- Community
- Documentation
- Translation
- Legal
- Marketing & PR
- Events

Non-profit, part of the Linux Foundation.

6 staff, ~20 shared



350+ Members and Growing

Platinum Members

Alibaba Cloud



DELL Technologies



Microsoft Azure

ORACLE

Pivotal

redhat.

SAMSUNG SDS

SAP

vmware

Gold Members



Baidu

CapitalOne

DigitalOcean

HORTONWORKS

inspur



Kingssoft Cloud

Orchestrating a brighter world

NEC

NetApp

salesforce

sumo logic

SUSE

Tencent Cloud

ZTE

End User Members



Bloomberg

CAMBIA

CapitalOne

COMCAST

ebay DENSO

adidas AMADEUS

box

cruise

curve

doordash

form3

granular

psystems

cablelabs

CAMBIA

CENG

globe.com



Github

globocom

Goldman Sachs

indeed intuit

JD.COM

Mattermost

Kuelap

la Mobiliere

mastercard

Nasdaq

The New York Times

PostFinance

pusher

reddit

ricardo.ch

CloudFoundry

Golden Gate University

internet

Morgan Stanley

NAIC

ncsoft

Pinterest

salesforce

Spotify

SAP Concur

shopify

Showmax

simplenexus

spreadfast

stix

testfire labs

textkernel

thredup

steelhouse

stix

testfire labs

textkernel

thredup

NAIC

NIPR

OpenCloud

Squarespace

State Street

Twitter

UnionBank

Advanced Research Computing Services

University of Michigan

Wikimedia Foundation

YAHOO! JAPAN

ticketmaster

Two Sigma

werkspot

wework

woorank

workday

wpengine

zalando

zendesk

SEL

Advanced Research Computing Services

University of Michigan

Wikimedia Foundation

End User Supporters

Academic/Nonprofit



350+ Members and Growing (Silver 1)



350+ Members and Growing (Silver 2)



CNCF Structure

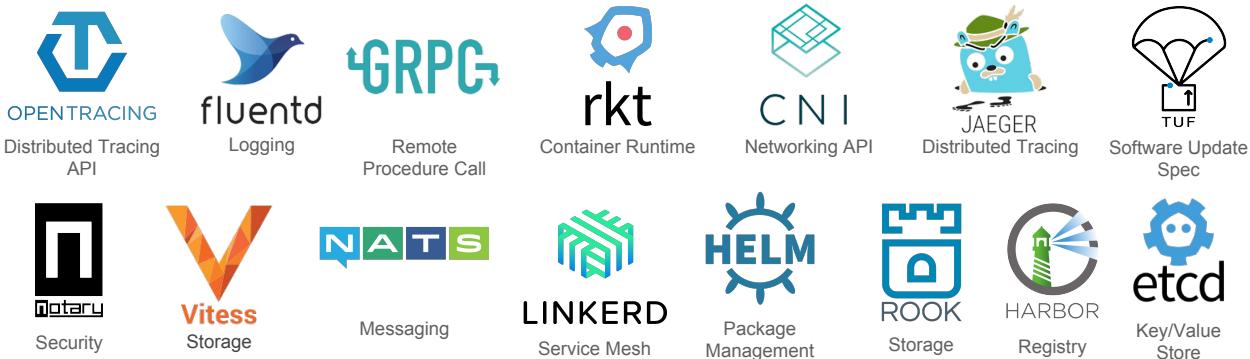


CNCF Projects

Graduated (5)



Incubating (15)



Sandbox (12), not shown





What matters is the complexity

House

1-10



Village

10-100



Town

100-500



City

500+

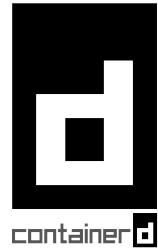






House (1-10 services)

- Source control
- Continuous integration





Village (10-100 services)

- Automation
- Instrumentation



kubernetes



Prometheus



fluentd





Town (100-500 services)

- Test driven development
- Continuous deployment



City (500+ services)



- High availability
- Storage
- Security





Some more...

- Built-ins
- Specifications



CoreDNS



OPENTRACING



CNI



Summary



Source control, continuous integration



Automation, packaging, instrumentation



Test driven development, continuous deployment



High availability, storage, security



KubeCon + CloudNativeCon

- Europe 2019 (sponsorships open)
 - Barcelona: May 20-23, 2019
- China 2019 (sponsorships open)
 - Shanghai: June 24-26, 2019
- North America 2019 (sponsorships open)
 - San Diego: November 18-21, 2019



Slides at oicheryl.com