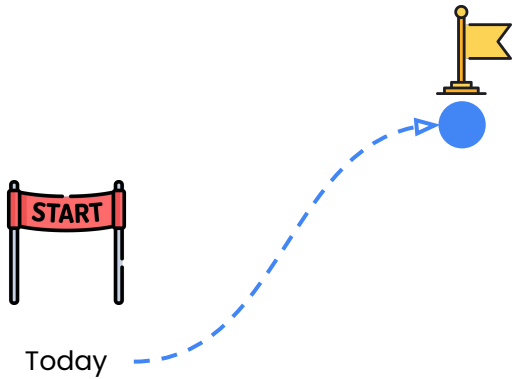
CLOUD NATIVE COMPUTING FOUNDATION

CLOUD NATIVE BANGKOK COMMUNITY GROUP

Cloud Native Bangkok

Roadmap



JoJo

(Cloud Native Stylist @ Jumpbox)

CLOUD NATIVE BANGKOK COMMUNITY GROUP

Organizer

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Who is CNCF?

Founded in 2015, the CNCF hosts critical components of the global technology infrastructure. CNCF brings together the world's top developers, end users, and vendors and runs the largest open source developer conferences.

CNCF is part of the Linux Foundation

The Linux Foundation is much more than Linux today

Security

We are helping global privacy and security through a program to encrypt the entire internet.

Networking

We are creating ecosystems around networking to improve agility in the evolving software-defined datacenter.

Cloud

We are creating a portability layer for the cloud, driving de facto standards and developing the orchestration layer for all clouds.

Automotive

We are creating the platform for infotainment in the auto industry that can be expanded into instrument clusters and telematics systems.

Blockchain

We are creating a permanent, secure distributed ledger that makes it easier to create cost-efficient, decentralized business networks.

Web

Node.js and other projects are the application development framework for next generation web, mobile, serverless, and IoT applications.

Let's Encrypt

LF NETWORKING

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AUTOMOTIVE GRADE LINUX

HYPERLEDGER

OpenJS Foundation

We are regularly adding projects; for the most up-to-date listing of all projects visit tlfprojects.org

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Kubernetes 1.0

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Kubernetes 1.0

THE LINUX FOUNDATION

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Kubernetes 1.0

THE LINUX FOUNDATION → CLOUD NATIVE COMPUTING FOUNDATION

Effective Nov 6, 2015
(foundation)

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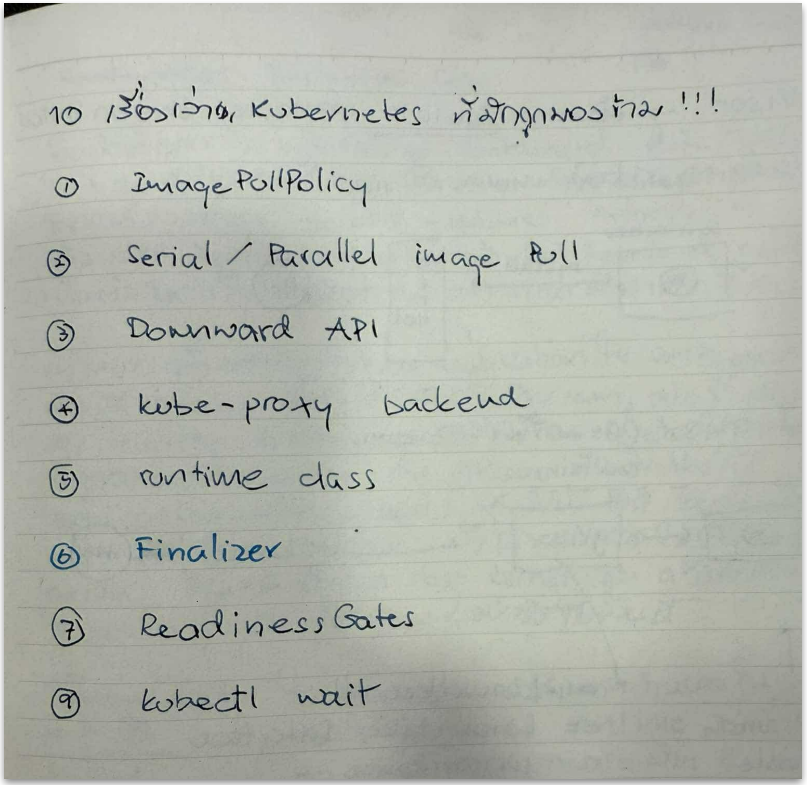
Background



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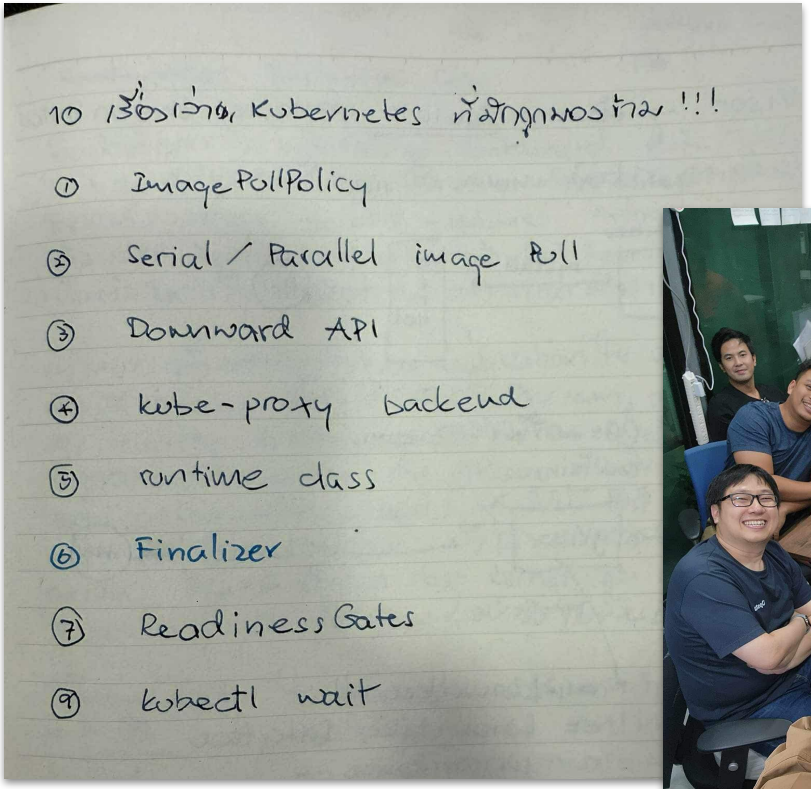

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CLOUD NATIVE BANGKOK COMMUNITY GROUP

CLOUD NATIVE BANGKOK COMMUNITY GROUP

Roadmap

Start

(คนบ้า Kube #Day 0)
2024-12-13

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Start

(คนบ้า Kube #Day 0)
2024-12-13

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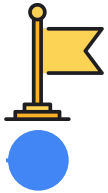

1st Virtual Event
(2025-05-22)

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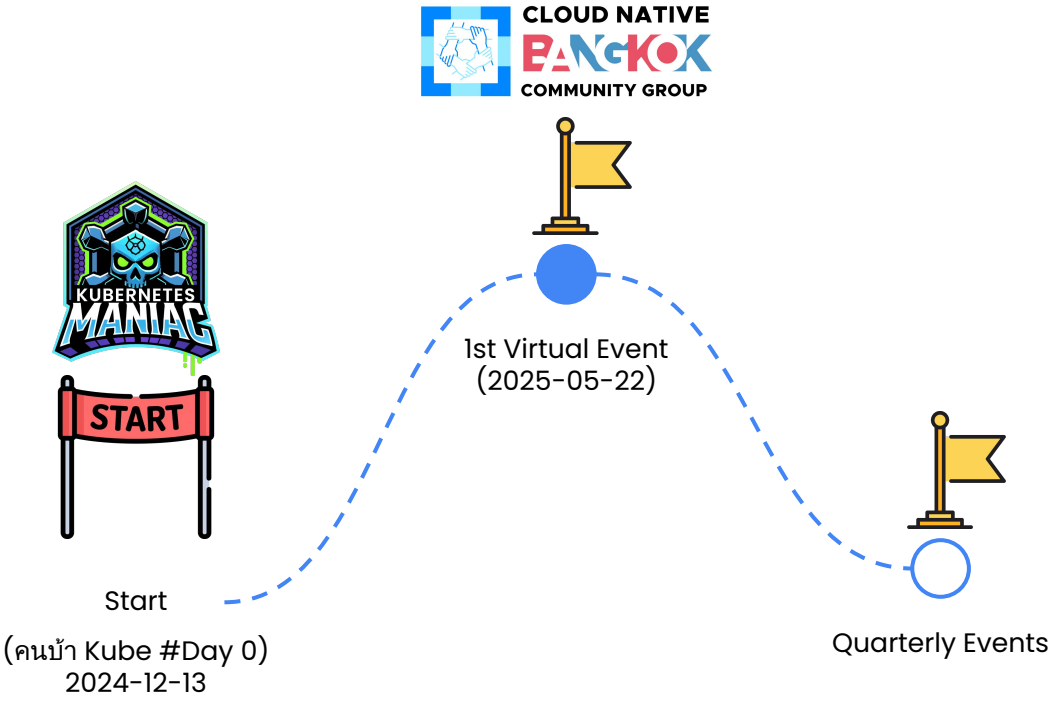

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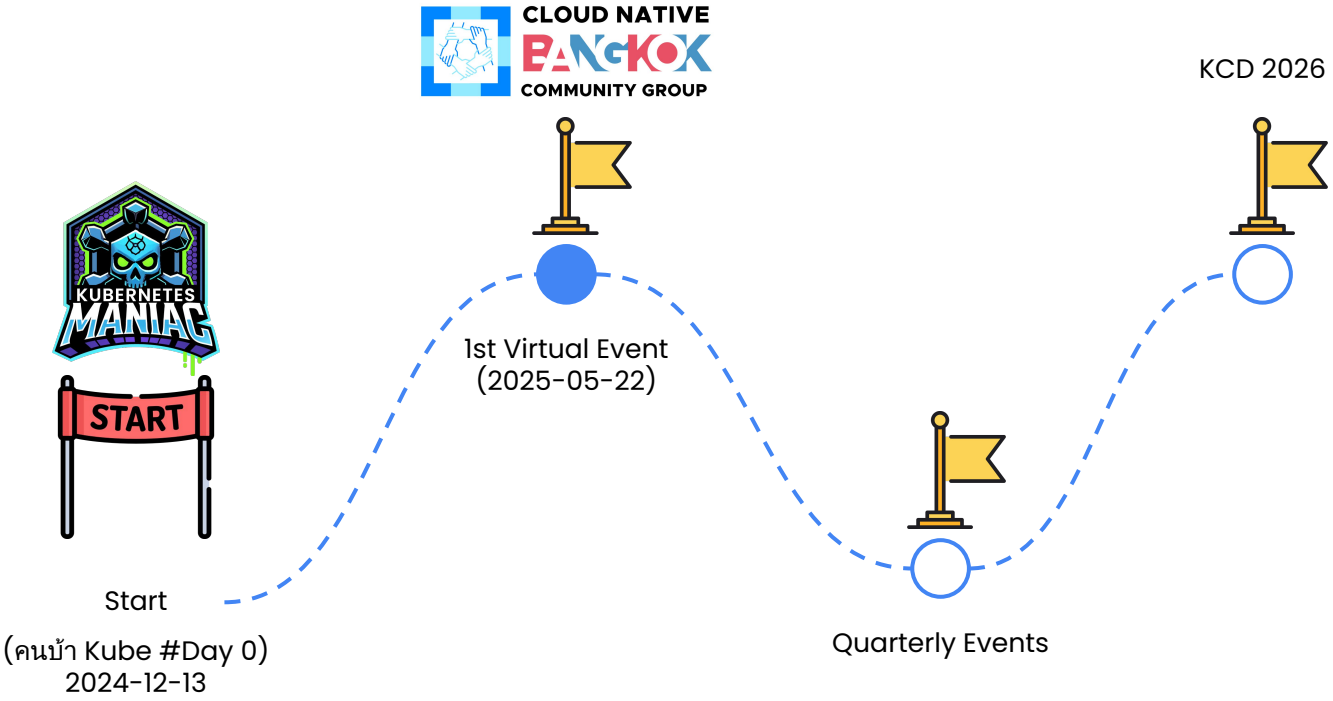

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Start

(คนบ้า Kube #Day 0)
2024-12-13

CLOUD NATIVE BANGKOK COMMUNITY GROUP

1st Virtual Event
(2025-05-22)

Quarterly Events

KCD 2026

KubeCon 202x

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Graduated Projects

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Incubating Projects

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Sandbox Projects

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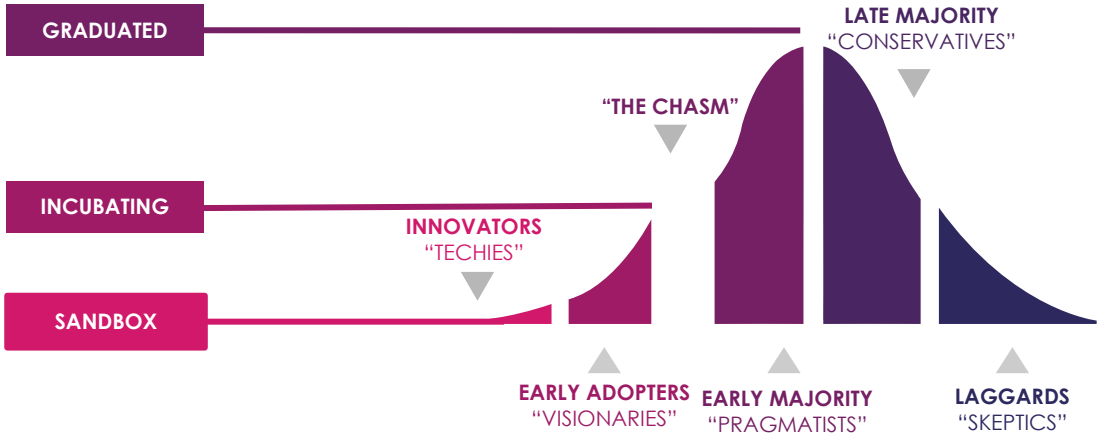
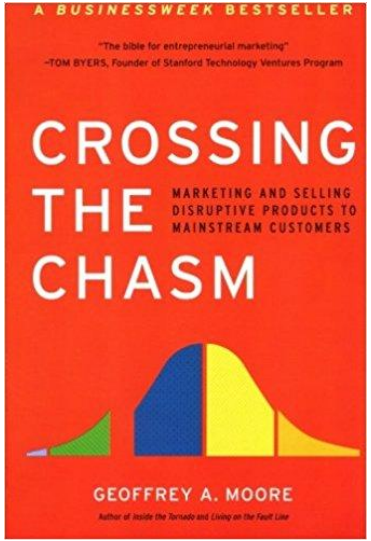
CNCF Project Maturities





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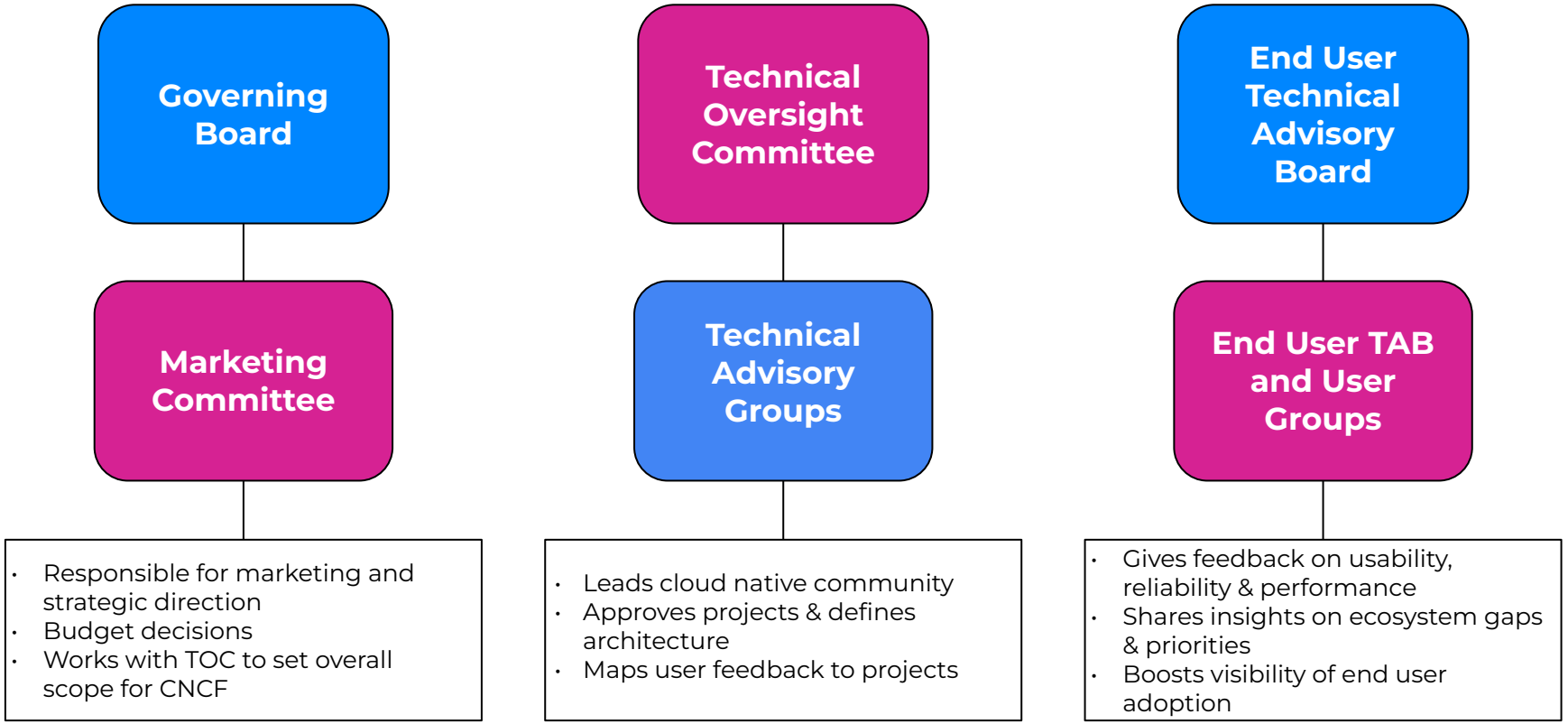
Our Structure



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CNCF Ecosystem Support

CNCF's mission is to make cloud native computing ubiquitous.

CNCF Cloud Native Definition v1.1

Cloud native practices empower organizations to develop, build, and deploy workloads in computing environments (public, private, hybrid cloud) to meet their organizational needs at scale in a programmatic and repeatable manner. **It is characterized by loosely coupled systems that interoperate in a manner that is secure, resilient, manageable, sustainable, and observable.**

Cloud native technologies and architectures typically consist of some combination of containers, service meshes, multi-tenancy, microservices, immutable infrastructure, serverless, and declarative APIs — this list is non-exhaustive.

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Why Organizations Are Adopting Cloud Native

1. Better resource efficiency lets you to run the same number of services on less servers
2. Improved resiliency and availability: despite failures of individual applications, machines, and even data centers
3. Cloud native allows multi-cloud (switching between public clouds or running on multiple ones) and hybrid cloud (moving workloads between your data center and the public cloud)
4. Cloud native infrastructure enables higher development velocity – improving your services faster – with lower risk

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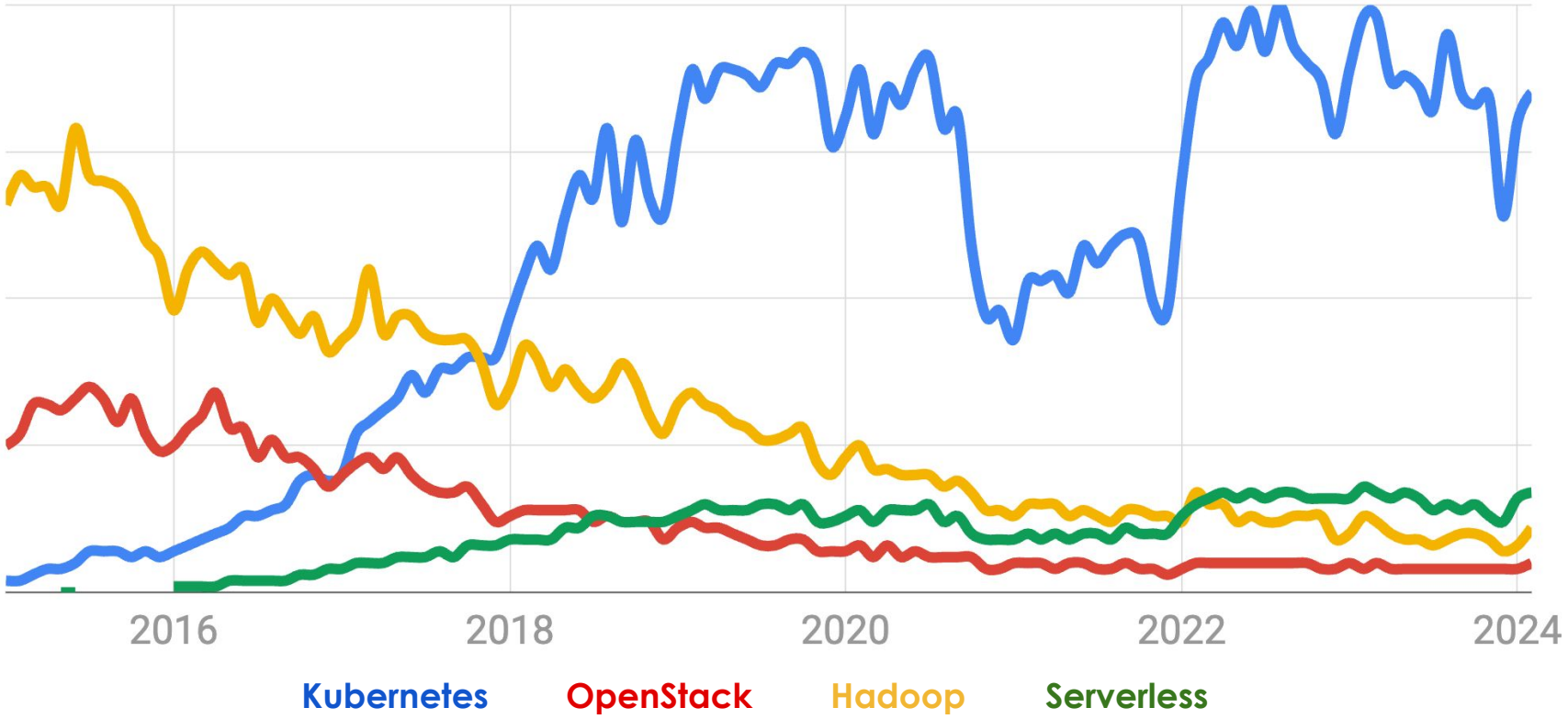
Kubernetes in Search Trends



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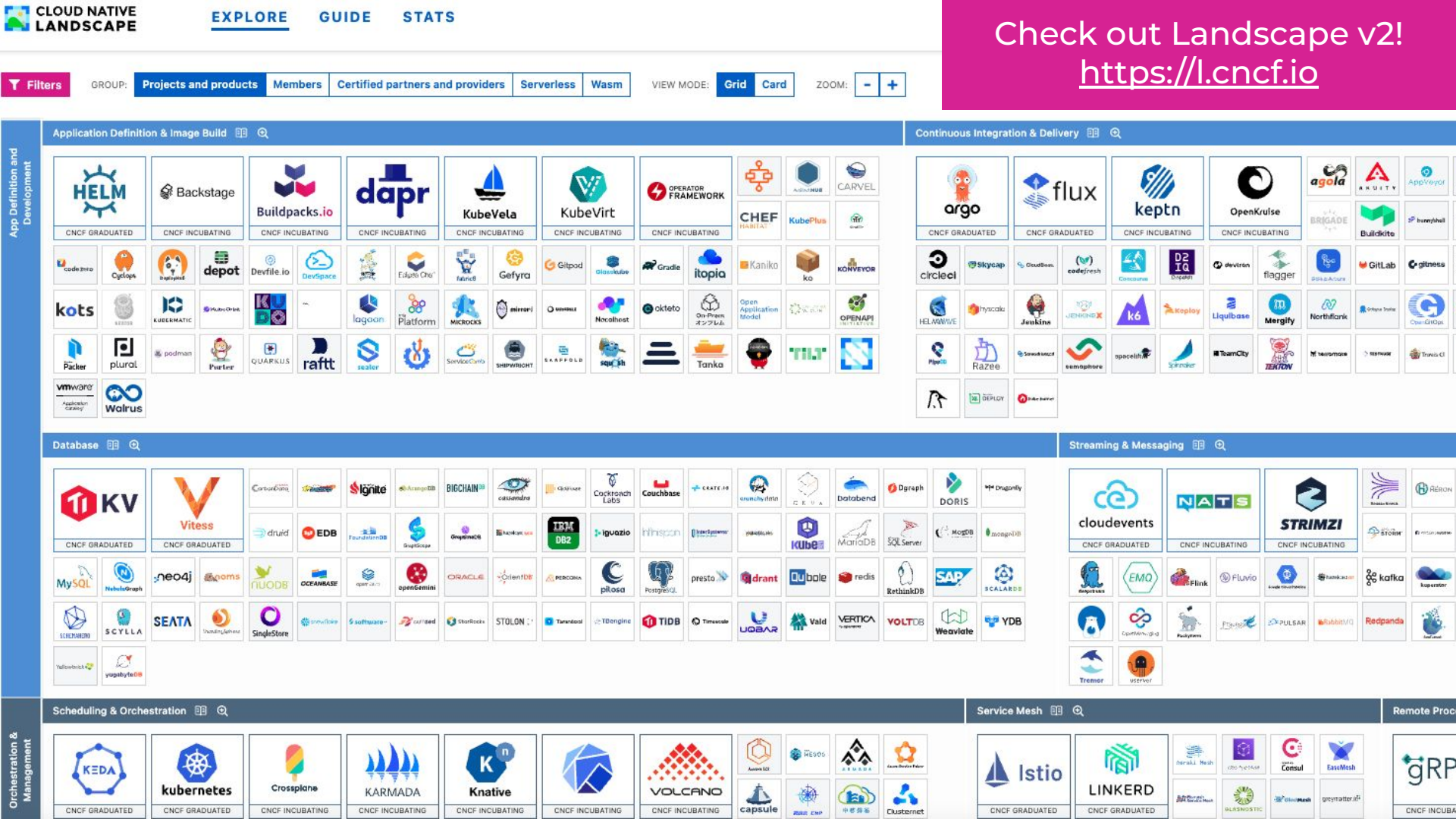
CLOUD NATIVE LANDSCAPE
EXPLORE
GUIDE
STATS
Check out Landscape v2!
https://l.cncf.io
Filters
GROUP:
Projects and products
Members
Certified partners and providers
Serverless
Wasm
VIEW MODE:
Grid
Card
ZOOM:
App Definition and Development
Application Definition & Image Build
HELM
CNCF GRADUATED
Backstage
CNCF INCUBATING
Buildpacks.io
CNCF INCUBATING
dapr
CNCF INCUBATING
KubeVela
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KubeVirt
CNCF INCUBATING
OPERATOR FRAMEWORK
CNCF INCUBATING
CHEF
KubePlus
CARVEL
Gitpod
Gradle
itopia
Kaniko
ko
KONVEYOR
kots
KUBEMATIC
Devfile.io
DevSpace
Gefyra
Platform
MICROCKS
Nocalhost
okteto
OPENAPI
Packer
plural
podman
Porter
QUARKUS
rafttt
sealer
ServiceConfig
SHIPWRIGHT
Tanka
TILT
vmware
Application Catalog
Walrus
Continuous Integration & Delivery
argo
CNCF GRADUATED
flux
CNCF GRADUATED
keptn
CNCF INCUBATING
OpenKruise
CNCF INCUBATING
agola
ANUITY
AppVeyor
BRIGADE
Buildkite
bunnyshell
circleci
Skycap
codefresh
devtron
flagger
GitLab
gitness
HELM MWE
Jenkins
JENKINS X
k6
Keploy
Liquibase
Mergify
Northflank
OpenGitOps
PipeCD
Razee
semaphore
spacelift
Spinnaker
TeamCity
TEKTON
Travis CI
DEPLOY
Database
KV
CNCF GRADUATED
Vitess
CNCF GRADUATED
Ignite
BIGCHAINDB
cassandra
Cockroach Labs
Couchbase
CRATE.IO
Databend
Dgraph
DORIS
DragonflyDB
druid
EDB
IBM DB2
iguazio
Kuber
MariaDB
SQL Server
MongoDB
MySQL
NebulaGraph
neo4j
noms
OCEANBASE
openGemini
ORACLE
OrientDB
PERCONA
pitosa
PostgreSQL
presto
qdrant
Qubole
redis
RethinkDB
SAP
SCALARDB
SCYLLA
SEATA
SingleStore
snowflake
STOLON
TiDB
Timescale
UCBAR
Vald
VERTICA
VOLTDB
Weaviate
YDB
yugabyteDB
Streaming & Messaging
cloudevents
CNCF GRADUATED
NATS
CNCF INCUBATING
STRIMZI
CNCF INCUBATING
EMQ
Flink
Fluvio
kafka
PULSAR
RabbitMQ
Redpanda
Tremor
vserver
Orchestration & Management
Scheduling & Orchestration
KEDA
CNCF GRADUATED
kubernetes
CNCF GRADUATED
Crossplane
CNCF INCUBATING
KARMADA
CNCF INCUBATING
Knative
CNCF INCUBATING
CNCF INCUBATING
VOLCANO
CNCF INCUBATING
capsule
MESOS
ARUNA
Clusternet
Service Mesh
Istio
CNCF GRADUATED
LINKERD
CNCF GRADUATED
Consul
EaseMesh
GLASNOSTIC
gRP
CNCF INCUBA

From Virtualization to Cloud Native

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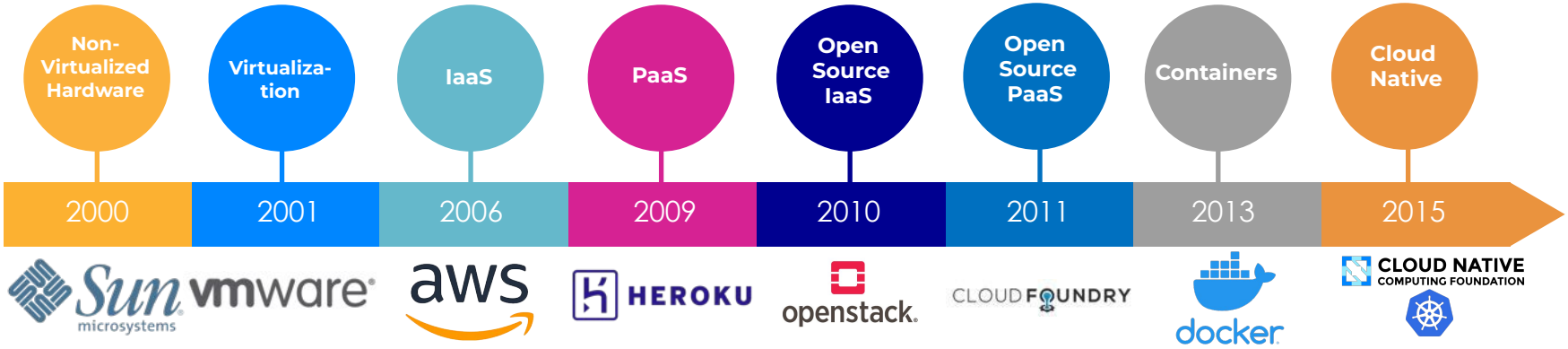
kubernetes

- Cloud native computing uses an open source software stack to:
  - segment applications into *microservices*,
  - package each part into its own *container*
  - and dynamically *orchestrate* those containers to optimize resource utilization



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Next Session

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Welcome to CNCF Ambassador

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Thank you for joining us

Presentation

Github: https://github.com/cncg-bkk/event-presentation