

CNCF Overview

Daniel Drack - AVL List GmbH
Jürgen Etzlstorfer - Microsoft

based on the CNCF template at:
<https://github.com/cncf/presentations>



Speakers

Daniel Drack

IT Infrastructure Specialist
AVL List GmbH



K8s round table Graz organizer
KCNA



Jürgen Etzlstorfer

Developer Engagement Lead
Microsoft Austria

<https://jetzlstorfer.github.io/>



Keptn Maintainer

Cloud Native Linz Meetup Organizer

CKAD ([blog](#))



CNCF Cloud Native Definition v1.0

Cloud native technologies empower organizations to build and run **scalable applications** in **modern, dynamic environments** such as public, private, and hybrid **clouds**. Containers, service meshes, microservices, immutable infrastructure, and declarative APIs exemplify this approach.

These techniques enable **loosely coupled systems** that are **resilient, manageable**, and **observable**. Combined with **robust automation**, they allow engineers to make high-impact **changes frequently** and **predictably** with **minimal toil**.

The **Cloud Native Computing Foundation** seeks to drive adoption of this paradigm by **fostering and sustaining** an ecosystem of **open source, vendor-neutral projects**. We democratize state-of-the-art patterns to make these innovations accessible for everyone.



Who is CNCF?

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.



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



Cloud Native Computing Foundation

- Nonprofit, part of the Linux Foundation; founded Dec. 2015

Graduated Projects



Incubating Projects



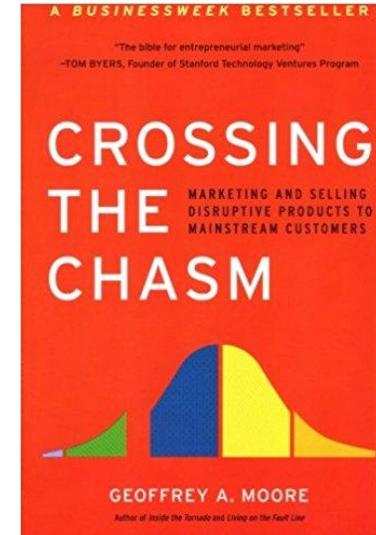
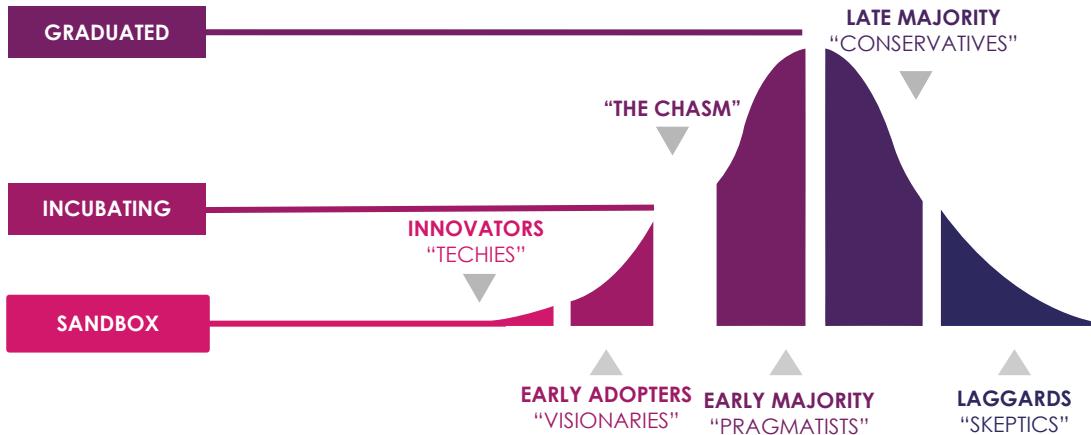
Cloud Native Computing Foundation

Sandbox Projects

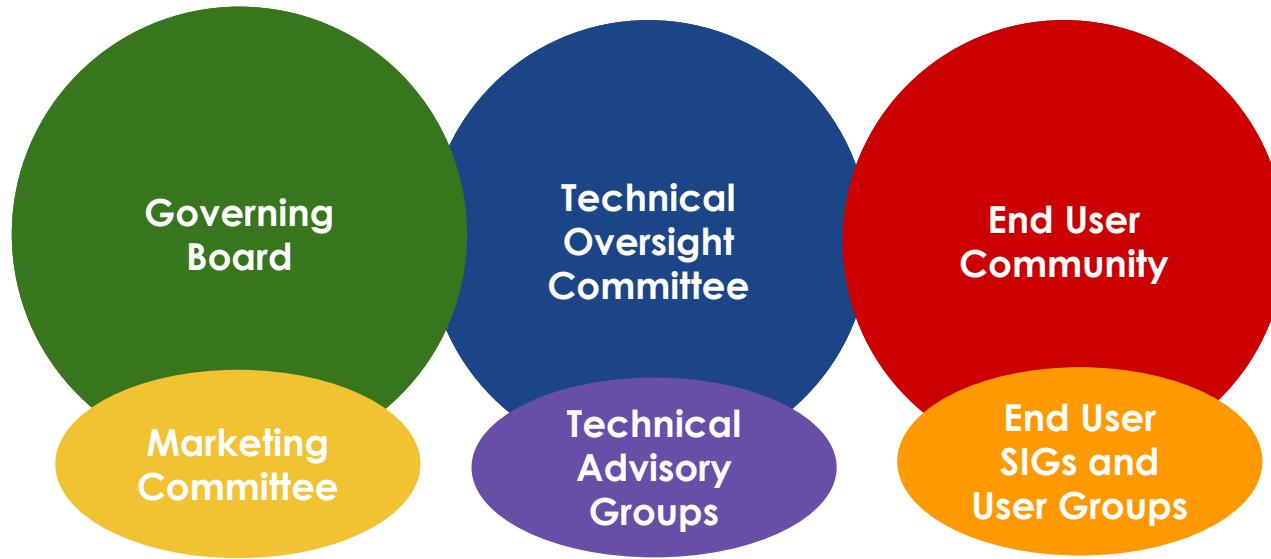
 ANTREA Antrea Cloud Native Computing Foundation (CNCF) Funding: \$2M	 ArtifactHub Artifact Hub Cloud Native Computing Foundation (CNCF) Funding: \$3M	 Athenz Athenz Cloud Native Computing Foundation (CNCF) Funding: \$3M	 Backstage Backstage Cloud Native Computing Foundation (CNCF) Funding: \$2M	 BFE BFE Cloud Native Computing Foundation (CNCF) Funding: \$3M	 BRIGADE Brigade Cloud Native Computing Foundation (CNCF) Funding: \$3M	 CDK for Kubernetes (CDKs) Cloud Native Computing Foundation (CNCF) Funding: \$3M	 cert-manager cert-manager Cloud Native Computing Foundation (CNCF) Funding: \$3M	 Chaos Mesh Chaos Mesh Cloud Native Computing Foundation (CNCF) Funding: \$3M	 ChaosBlade Chaosblade Cloud Native Computing Foundation (CNCF) Funding: \$3M	 ChubaoFS ChubaoFS Cloud Native Computing Foundation (CNCF) Funding: \$3M	 Cloud Custodian Cloud Custodian Cloud Native Computing Foundation (CNCF) Funding: \$3M	 CNI-Genie CNI-Genie Cloud Native Computing Foundation (CNCF) Funding: \$2M	
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 OpenTelemetry OpenTelemetry Cloud Native Computing Foundation (CNCF) Funding: \$2M	 OpenYurt OpenYurt Cloud Native Computing Foundation (CNCF) Funding: \$3M	 PARSEC PARSEC Cloud Native Computing Foundation (CNCF) Funding: \$3M	 Piraeus Piraeus Cloud Native Computing Foundation (CNCF) Funding: \$3M	 Porter Porter Cloud Native Computing Foundation (CNCF) Funding: \$3M	 Pravega Pravega Cloud Native Computing Foundation (CNCF) Funding: \$3M	 SCHENHERO Schenhero Cloud Native Computing Foundation (CNCF) Funding: \$3M	 Service Mesh Interface Service Mesh Interface Cloud Native Computing Foundation (CNCF) Funding: \$3M	 Service Mesh Interface Service Mesh Interface Cloud Native Computing Foundation (CNCF) Funding: \$3M	 SMP SMP Cloud Native Computing Foundation (CNCF) Funding: \$3M	 Skooner Skooner Cloud Native Computing Foundation (CNCF) Funding: \$3M	 Strimzi Strimzi Cloud Native Computing Foundation (CNCF) Funding: \$3M	 SUBMARINER Submariner Cloud Native Computing Foundation (CNCF) Funding: \$2M	
 Telepresence Telepresence Cloud Native Computing Foundation (CNCF) Funding: \$2M	 Tinkerbell Tinkerbell Cloud Native Computing Foundation (CNCF) Funding: \$3M	 Tremor Tremor Cloud Native Computing Foundation (CNCF) Funding: \$3M	 trickster trickster Cloud Native Computing Foundation (CNCF) Funding: \$3M	 Vineyard Vineyard Cloud Native Computing Foundation (CNCF) Funding: \$3M	 Virtual Kubelet Virtual Kubelet Cloud Native Computing Foundation (CNCF) Funding: \$3M	 VOLCANO Volcano Cloud Native Computing Foundation (CNCF) Funding: \$3M	 WasmEdge Runtime WasmEdge Runtime Cloud Native Computing Foundation (CNCF) Funding: \$3M	 Weave Weave Cloud Native Computing Foundation (CNCF) Funding: \$3M	 Weave Weave Cloud Native Computing Foundation (CNCF) Funding: \$3M	 Weave Weave Cloud Native Computing Foundation (CNCF) Funding: \$3M	 Weave Weave Cloud Native Computing Foundation (CNCF) Funding: \$3M	 Weave Weave Cloud Native Computing Foundation (CNCF) Funding: \$3M	



CNCF Project Maturities



CNCF Structure



- Mainly vendors
 - Fund the organization
 - Marketing and strategic direction
- 11 top technical architects
 - Admit new projects
 - Acts as a resource to projects
- Real end users of these technologies
 - Communicate back requirements and good and bad experiences



CNCF Structure - Details

TOC

11 people / 10 companies

Amazon	Docker
Apple	CERN
Spotify	Isovalent
VMWare	Rancher
Microsoft	Google

GB

29 people / 28 companies

Alibaba	JFrog
Amazon	Kasten
Apple	Kubermatic
Arm	Microsoft
AT&T	NetApp
Cisco	New Relic
Cox Edge Services	Oracle
Equinix	Palo Alto Networks
Fujitsu	Red Hat
GitLab	SAP
Google	Spotify
Grafana Labs	SUSE
Huawei	VMWare
Intel	Volcano Engine



The world's largest cloud and software companies

Platinum Members



Gold Members

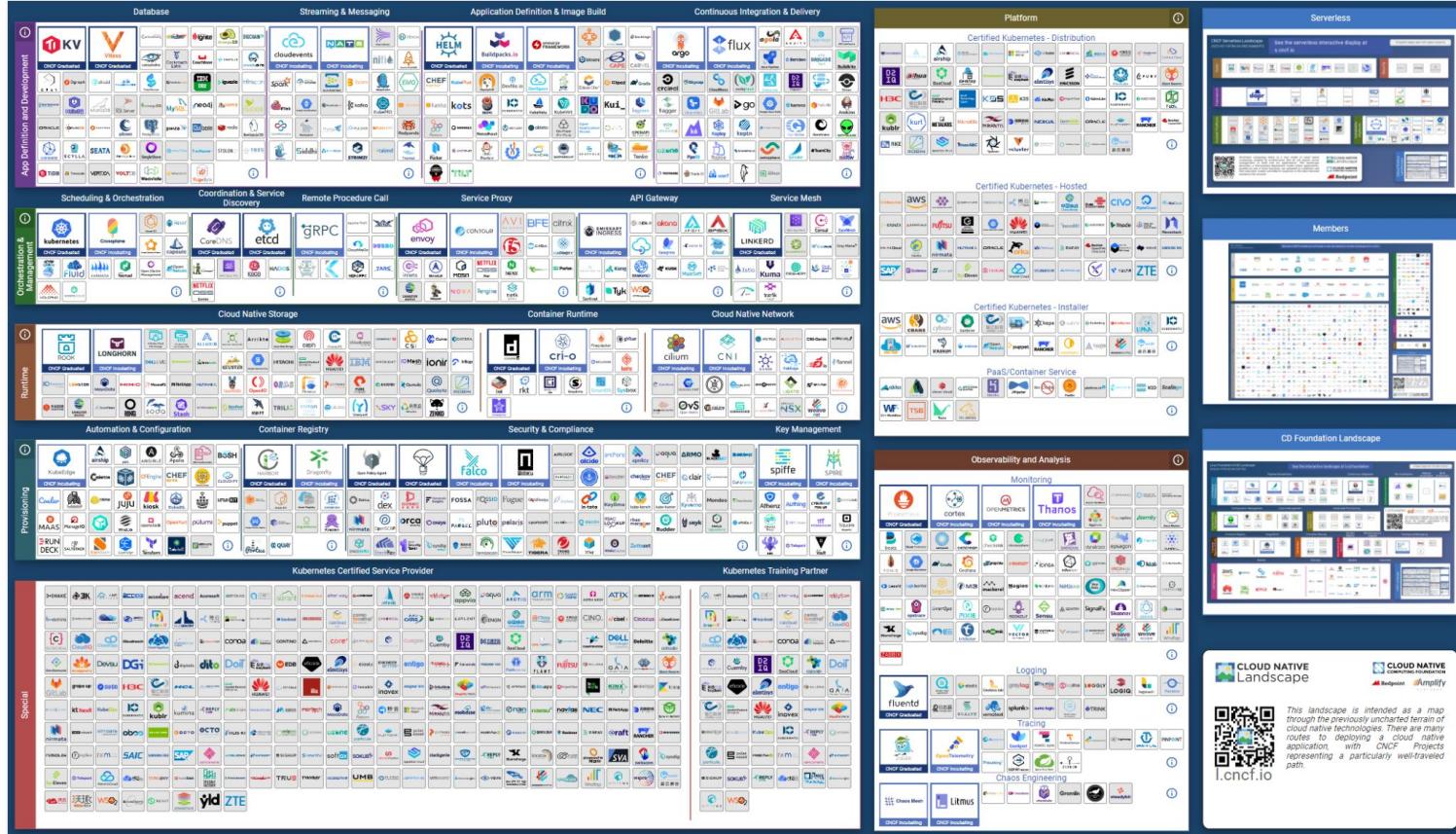


Academic/Nonprofit Members



CNCF Projects

CNCF Landscape - it is HUGE



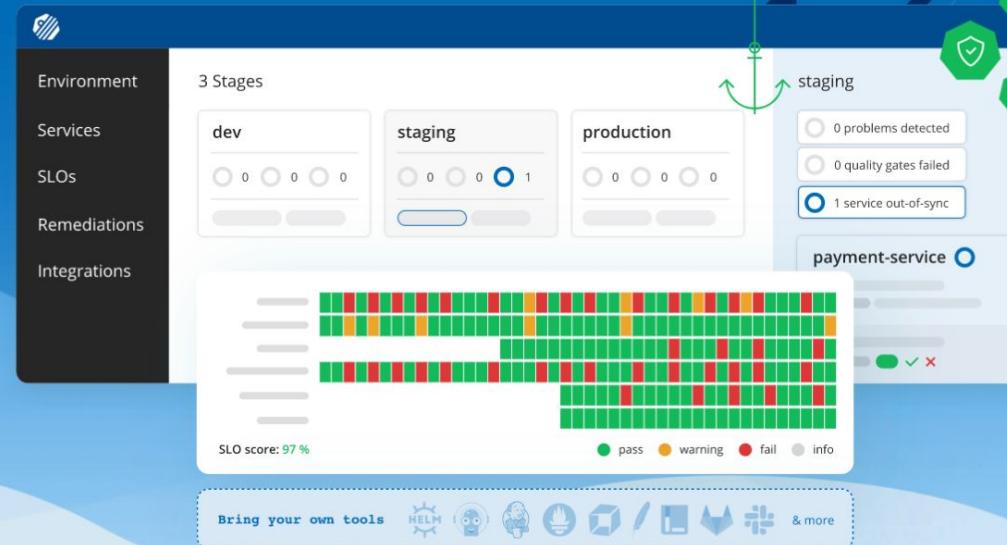
Cloud-native application life-cycle orchestration

Keptn automates

- Observability, dashboards & alerting
- SLO-driven multi-stage delivery
- Operations & remediation

declarative, extensible and based on GitOps

Install Keptn!



The screenshot shows the Keptn dashboard interface. On the left, a sidebar menu includes Environment, Services, SLOs, Remediations, and Integrations. The main area displays a "3 Stages" pipeline with three boxes: "dev", "staging", and "production". Each stage has four circular status indicators below it. To the right of the stages is a summary for the "payment-service": "0 problems detected", "0 quality gates failed", and "1 service out-of-sync". Below the stages is a large horizontal bar chart representing SLOs, with a legend indicating "pass" (green), "warning" (yellow), "fail" (red), and "info" (grey). The chart shows a "SLO score: 97 %". At the bottom, a section titled "Bring your own tools" lists various icons for integration with tools like Helm, Jenkins, CircleCI, GitHub, Docker, and more.

Why we built Keptn



63%

Building internal delivery platforms

 **keptn addresses
3 problems raised as
adoption challenges
in our survey**

95%

time wasted maintaining pipelines

80%

time spent in manual tasks

90%

time spent in manual remediation

State of DevOps Report 2020: <https://puppet.com/resources/report/2020-state-of-devops-report>

Our results based on <https://dynatrace.ai/acsurvey> and engagements with Keptn users

Keptn journey so far



- **First commit** on GitHub in 2019, initiated by Dynatrace
- **Contributed** to **CNCF** in June 2020 as **Sandbox** project
 - Sandbox <https://github.com/cncf/toc/pull/237>
 - Currently in the process for incubation <https://github.com/cncf/toc/pull/670>



Blog: <https://medium.com/keptn/keptn-simplifying-cloud-native-app-delivery-operations-a-review-on-our-journey-so-far-5d0f56619662>

Keptn journey so far



- **Running in production** at [multiple organizations](#)
- **80+ contributors** to the project
- **Collaboration** between CNCF projects (Prometheus, Helm, Litmus, ...)
- (Virtual) booth at **KubeCon**
 - program committee member
 - track chair
- **Mentorship:** 3 graduated mentees and ongoing mentorships



Track Chair:
KubeCon +
CloudNativeCon
Europe 2021
The Linux Foundation



Speaker:
KubeCon +
CloudNativeCon
Europe 2021
The Linux Foundation

keptn @keptnProject · Dec 2
We are proud to be a mentoring @CloudNativeFdn community bridge project.
Today was "review day" and the mentors @braeuer_j @jetzlstorfer and Florian took a close look at the mentees contributions!
Great work @ankitjain28may! 🌟 We are happy to have you on our team

🙌

Mentorships in the CNCF



Programs for which I am a Mentor

Mentorship

CNCF - Keptn: Generate service skeleton via CLI

openssf best practices **In progress 99%**

Mentors	Current Mentees

Required Skills
 +1

Funding To Date
\$3,000

Terms

Mentorship

Keptn

openssf best practices **In progress 99%**

Mentors	Current Mentees

Required Skills
 +2

Funding To Date
\$3,000

Terms

Mentorship

CNCF - Keptn: Provide a hub for Keptn integrations

openssf best practices **In progress 99%**

Mentors	Current Mentees

Required Skills
 +2

Funding To Date
\$0

Terms

Mentorship

CNCF - Keptn: Improve Prometheus integration and exposure of...

openssf best practices **In progress 99%**

Mentors	Current Mentees

Required Skills
 +1

Funding To Date
\$3,000

Terms

Mentorship

CNCF - Keptn: Support for generic webhook execution

openssf best practices **In progress 99%**

Mentors	Current Mentees

Required Skills

Funding To Date
\$0

Terms

Summer'2021
Jun 2021 - Aug 2021

<https://mentorship.lfx.linuxfoundation.org/>

Being open (source)



everyone can contribute
but needs guidance **how** to
contribute

- How to install
- How to contribute
- How to become maintainer
- Who is the owner
- Roadmap
- ...

The screenshot shows the GitHub organization page for 'keptn' at github.com/orgs/keptn/projects/1. The 'Roadmap' tab is selected. The page displays a timeline of projects and their status:

- Backlog (7 items):**
 - Keptn Roadmap
 - Add/remove stages to project on-demand
 - KEP 70 - Add/remove Stages to/from Project
 - Keptn Declarative Configuration
 - KEP 69 - Keptn Declarative Configuration
 - Keptn & GitOps
- Refinement phase (9 items):**
 - Re-trigger a sequence execution
 - KEP 68 - Re-trigger a sequence
 - Resolving debt for SLI retrieval
 - KEP 56 - Resolving debt of SLI
 - Keptn capabilities
 - Keptn community
 - Keptn User Summit at KubeCon
- Planned for 0.13.0 (8 items):**
 - Zero-downtime Upgrades & High Availability
 - KEP 48 - Zero-downtime Upgrades & High Availability
 - Role-based Access Control (RBAC)
 - KEP 60 - Role-based Access Control (RBAC)
 - Keptn capabilities
 - Keptn community
- In progress for: 0.11.0 - 0.12.0 (4 items):**
 - Quality, Robustness, and Scalability
 - KEP 53 - Manage Keptn entities using Bridge
 - KEP 53 - Manage Keptn entities using Bridge
 - Introduce the community roadmap

Each item in the roadmap includes a link to its corresponding GitHub issue or pull request, a brief description, and labels indicating its status (e.g., enhancement, roadmap-candidate).

CNCF Tools



Landscape Guide

Reset Filters

Grouping

CNCF Relation

Sort By

Alphabetical (a to z)

Category

Any

CNCF Relation

Any

License

Any

Organization

Any

Headquarters Location

Any

Company Type

Any

Industries

Any

Example filters:

Cards by age

Open source landscape

Member cards

CNCF Graduated Projects (16)

 containerd Cloud Native Computing Foundation (CNCF) Funding: \$3M	 CoreDNS Cloud Native Computing Foundation (CNCF) Funding: \$3M	 envoy Cloud Native Computing Foundation (CNCF) Funding: \$3M	 etcd Cloud Native Computing Foundation (CNCF) Funding: \$3M
 Helm Cloud Native Computing Foundation (CNCF) Funding: \$3M	 Jaeger Cloud Native Computing Foundation (CNCF) Funding: \$3M	 kubernetes Cloud Native Computing Foundation (CNCF) Funding: \$3M	 Linkerd Cloud Native Computing Foundation (CNCF) Funding: \$3M
 ROOK Cloud Native Computing Foundation (CNCF) Funding: \$3M	 The Update Framework (TUF) Cloud Native Computing Foundation (CNCF) Funding: \$3M	 TiKV Cloud Native Computing Foundation (CNCF) Funding: \$3M	 Vitess Cloud Native Computing Foundation (CNCF) Funding: \$3M

Try it now at
<https://l.cncf.io>

The image displays the CNCF Cloud Native Landscape, a comprehensive map of open-source projects in the cloud native ecosystem. The landscape is organized into several main sections:

- Database:** Includes logos for KV, Redis, MySQL, Oracle, PostgreSQL, and many others.
- Streaming & Messaging:** Features logos for Kafka, Apache Beam, Flink, and other messaging systems.
- Application Definition & Image Build:** Shows logos for Helm, Docker, and various CI/CD tools.
- Continuous Integration & Delivery:** Displays logos for Jenkins, CircleCI, Travis CI, and others.
- Platform:** Focuses on Kubernetes distribution, featuring logos for Amazon EKS, Google Kubernetes Engine, and others.
- Serverless:** Shows logos for AWS Lambda, Azure Functions, and Google Cloud Functions.
- Orchestration & Management:** Includes Kubernetes, CloudBees Jenkins, and other management tools.
- Runtime:** Features logos for container runtimes like Docker, CRI-O, and Kubernetes.
- Cloud Native Storage:** Displays logos for storage solutions like OpenShift, Rook, and Longhorn.
- Container Runtime:** Shows logos for various container runtimes and their configurations.
- Cloud Native Network:** Includes logos for network components like Istio, Linkerd, and CNI.
- Automation & Configuration:** Features logos for Chef, Puppet, Ansible, and other configuration management tools.
- Container Registry:** Shows logos for Docker, Quay, and other container registries.
- Security & Compliance:** Includes logos for Falco, Open Policy Agent, and other security tools.
- Key Management:** Displays logos for Spiffe, Spire, and other key management systems.
- Kubernetes Certified Service Provider:** A large section showing logos for various Kubernetes service providers.
- Kubernetes Training Partner:** Logos for companies providing training for Kubernetes.
- Observability and Analysis:** Features monitoring tools like Prometheus, Grafana, and Thanos.
- CD Foundation Landscape:** Shows logos for various Continuous Deployment and Delivery tools.
- Special:** A section containing logos for various specialized projects.
- CLOUD NATIVE Landscape:** A summary section with logos for Red Hat OpenShift and AWS Amplify.

The landscape is highly visual, using a grid of colored squares to represent different projects. Greyed-out logos indicate they are not open source. The entire map is intended as a guide to the complex world of cloud native technology, with many routes leading to various applications and services.

Cloud Native Trail Map

23

Trail Map:
<https://github.com/cncf/trailmap>

CLOUD NATIVE TRAIL MAP

The Cloud Native Landscape (cncf.io) has a large number of options. This Cloud Native Trail Map is a recommended process for learning about cloud native technologies. At each step, you can choose a vendor-supported offering, or do it yourself, and everything after step #3 is optional based on your circumstances.

HELP ALONG THE WAY

A. Training and Certification

Consider training offerings from CNCF and then take the exam to become a Certified Kubernetes Administrator or a Certified Kubernetes Application Developer cncf.io/training

B. Consulting Help

If you want assistance with Kubernetes and the surrounding ecosystem, consider leveraging a Kubernetes Certified Service Provider cncf.io/kscsp

C. Join CNCF's End User Community

For companies that don't offer cloud native services externally cncf.io/enduser

WHAT IS CLOUD NATIVE?

Cloud native technologies empower organizations to build and run scalable applications in modern, dynamic environments such as public, private, and hybrid clouds. Containers, service meshes, microservices, immutable infrastructure, and declarative APIs exemplify this approach.

These techniques enable loosely coupled systems that are resilient, manageable, and observable. Combined with robust automation, they allow engineers to make high-impact changes frequently and predictably with minimal toil.

The Cloud Native Computing Foundation seeks to drive adoption of this paradigm by fostering and sustaining an ecosystem of open source, vendor-neutral projects. We democratize state-of-the-art patterns to make these innovations accessible for everyone.



v20200501



v20200501

1. CONTAINERIZATION

- Community driven with Docker containers
- Any size application and dependencies (even PDP-11 code running on an emulator) can be containerized
- Over time, you should aspire towards splitting suitable applications and writing future functionality as microservices



3. ORCHESTRATION & APPLICATION DEFINITION

- Kubernetes is the market-leading orchestration solution
- You should select a Certified Kubernetes Distribution, Hosted Platform, or Installer: cncf.io/cckd
- Helm Charts help you define, install, and upgrade even the most complex Kubernetes application



5. SERVICE PROXY, DISCOVERY, & MESH

- CoreDNS is a fast and flexible tool that is useful for service discovery
- Envoy and Linkerd each enable service mesh architectures
- They offer health checking, routing, and load balancing



7. DISTRIBUTED DATABASE & STORAGE

When you need more flexible networking, use a CNCF-compliant network project like Calico, Flannel, or Weave Net. Open Policy Agent (OPA) is a general-purpose policy engine with uses ranging from authorization and admission control to data filtering. Falco is an anomaly detection engine for cloud native.



9. CONTAINER REGISTRY & RUNTIME

Harbor is a registry that stores, signs, and scans content. You can use alternative container runtimes. The most common, both of which are OCI-compliant, are containerd and cri-O.



2. CI/CD

- Setup Continuous Integration/Continuous Delivery (CI/CD) so that changes to your source code automatically result in a new container being built, tested, and deployed to staging and eventually, perhaps, to production
- Setup automated rollouts, roll backs and tests
- Argo is a set of Kubernetes-native tools for workflow management, approvals, notifications, workflows, and events using gRPC and progressive delivery and M-Lops

4. OBSERVABILITY & ANALYSIS

- Pick solutions for monitoring, logging and tracing
- Consider CNCF projects Prometheus for monitoring, Fluentd for logging and Jaeger for Tracing
- For tracing, look for an OpenTracing-compatible implementation like Jaeger



6. NETWORKING, POLICY, & SECURITY

To enable more flexible networking, use a CNCF-compliant network project like Calico, Flannel, or Weave Net. Open Policy Agent (OPA) is a general-purpose policy engine with uses ranging from authorization and admission control to data filtering. Falco is an anomaly detection engine for cloud native.



8. STREAMING & MESSAGING

When you need higher performance than JSON+REST, consider using gRPC or NATS. gRPC is a universal RPC framework. NATS is a multi-modal messaging system that includes request/reply, pub/sub and load balanced queues. CloudEvents is a specification for describing event data in common ways.



10. SOFTWARE DISTRIBUTION

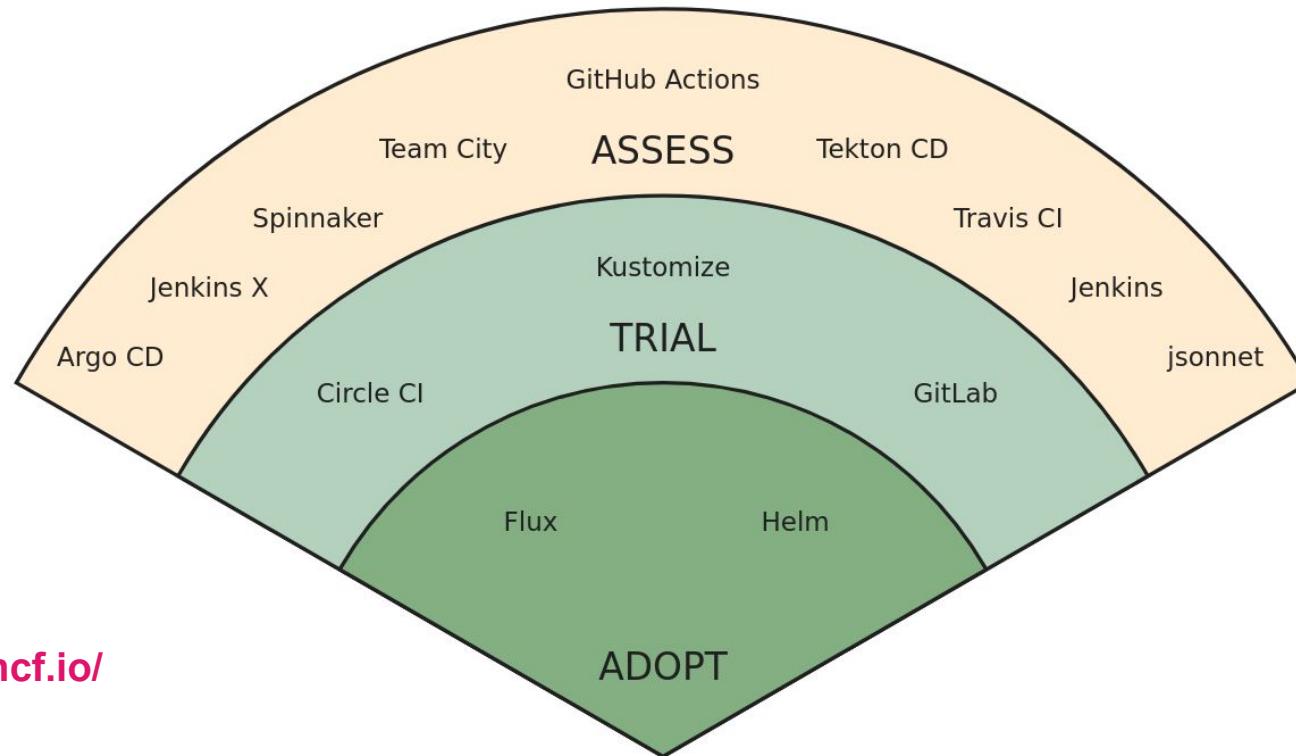
If you need to do secure software distribution, evaluate Notary, an implementation of The Update Framework.



CNCF End User Tech Radar

CNCF Technology Radar

Continuous Delivery, June 2020



Try it out:

<https://radar.cncf.io/>



CNCF Community



CLOUD NATIVE
COMPUTING FOUNDATION

Gather with the Community

- Meet our Ambassadors
 - Local cloud native influencers
- Mentorship Programs
 - Learn and grow in open source
- Cloud Native Community Groups
 - Local meetup event
- Kubernetes Community Days
 - Regional events where cloud native connects
- KubeCon + CloudNativeCon
 - Premier worldwide cloud native events!
 - Co-located events





Contribute - code & cloud native evangelism

CODE - Technical Oversight Committee

- Technical Advisory Groups
 - [App Delivery](#)
 - [Contributor Strategy](#)
 - [Network](#)
 - [Runtime](#)
 - [Security](#)
 - [Storage](#)
 - [Observability](#)
- Working Groups
- Special Interest Groups

NON CODE - Cloud Native Evangelism

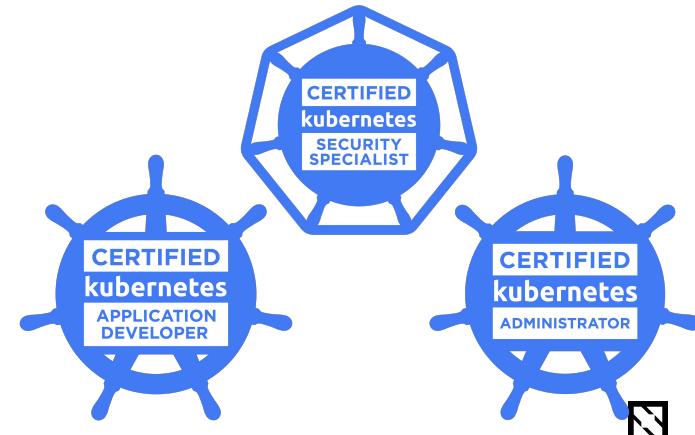
- Cartografos WG - coming soon!
- [CNCF.io blog](#) (projects and members)
- [Kubernetes.io blog](#) (open to all)
- Marketing Committee (members only)
 - [Business Value Subcommittee](#)
 - [Cloud Native Glossary](#) (open to all)
- [Online Programs](#) (members only)



Certifications, Trainings, & Partners

Millions of Trained and Certified Professionals

- Kubernetes learning platform hit 242,000 enrollments
- Certified Kubernetes Administrator ([CKA](#)) exam hit 84,000 enrollments
- Certified Kubernetes Application Developer ([CKAD](#)) hit 39,000 exam registrations
- Certified Kubernetes Security Specialist ([CKS](#)) exam hit 15,000 registrations
- Kubernetes and Cloud Native Associate Exam ([KCNA](#)) exam reached 1,900 registrations
- Additional Courses include:
 - Service Mesh Fundamentals
 - Manager Kubernetes Applications with Helm
 - Cloud Native Logging with Fluentd
 - Intro to Service Mesh with Linkerd
 - Intro to Serverless on Kubernetes
 - Intro to WebAssembly



220+ Kubernetes Certified Service Providers



100+ Certified Kubernetes Conformance Partners



CNCF Membership

Your Membership Benefits

Organizations join CNCF because they want to take an active role in supporting the growth and evolution of the cloud native ecosystem.

CNCF Membership Provides:

1



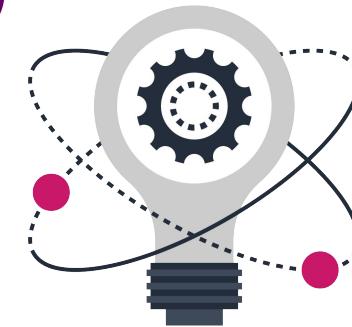
Marketing Amplification
and Brand Awareness

2



Cloud Native Community
Engagement

3



Thought Leadership Across Key
Technology Trends



CNCF and LF Combined Annual Dues

Platinum Member	\$370,000*
Gold Member	\$120,000
Silver or End User Member	5,000 employees +: \$50,000 3,000 - 4,999: \$45,000 1,000 - 2,999: \$35,000 500 - 999: \$25,000 100 - 499: \$15,000 50 - 99: \$10,000 Less than 50 employees: \$7,000
Academic or Nonprofit	\$500 Nonprofit or \$1,000 Academic

*Three year minimum commitment



Benefits snapshot

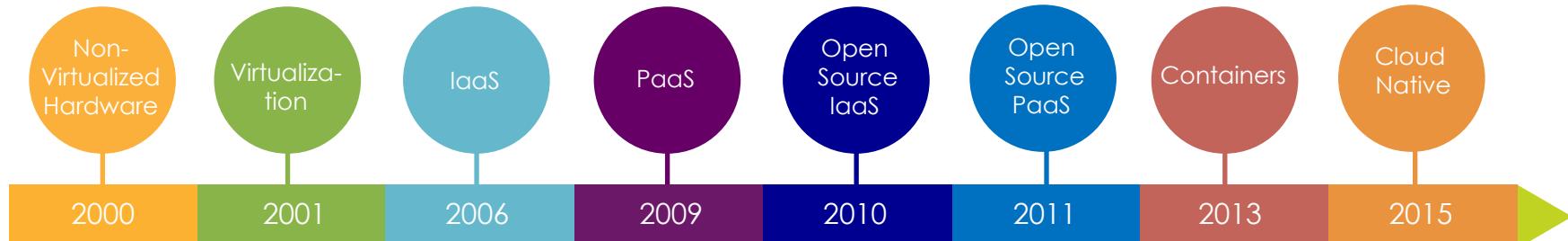
Membership benefits	Academic/Nonprofit	Silver	Gold	Platinum <small>Minimum of three year commitment</small>
	LF Associate included	<u>LF Silver benefits included</u>		
Strategic community engagement guidance	n/a	n/a	Yearly	Customized
Governing Board election and participation	n/a	Yes	Yes	Guaranteed seat
Member marketing programs	Yes	2 per quarter	4 per quarter	4 per quarter + live webinar
Membership press announcements	Quarterly group release	Quarterly group release	KubeCon keynote mention + customized PR	KubeCon keynote mention + feature speaker, and customized PR
Logo recognition on CNCF.io, the landscape, and LF website	Yes	Yes	Yes	Yes
Event sponsorship discounts	Yes	Yes	Yes + 2nd choice in Diamond lottery	Yes + 1st choice in Diamond lottery



From Virtualization to Cloud Native



- 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



CLOUD FOUNDRY

