



Agenda

- What is CNCF?
- Platform Engineering with Backstage & Crossplane
- Scaling without limits The serverless way
- Implementing Delivery strategies with ArgoCD & K8s
- Open forum & Networking



CNCF Cloud Native Definition

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.





Who is CNCF?

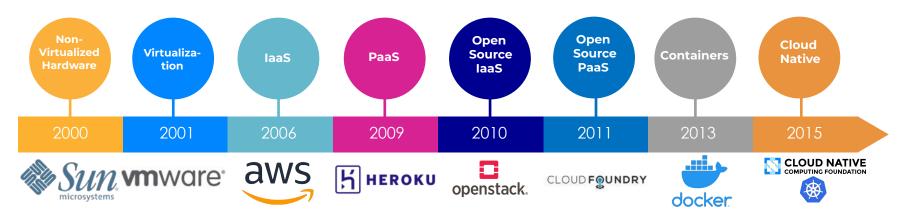
Founded in 2015, the CNCF hosts critical components of the global technology infrastructure. CNCF brings together the world's top developers, end users, and vendors and runs the largest open source developer conferences.

From Virtualization to Cloud Native





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





CNCF is part of the Linux Foundation

The Linux Foundation is much more than Linux today



Networking Networking



Automotive



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

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

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

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

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

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









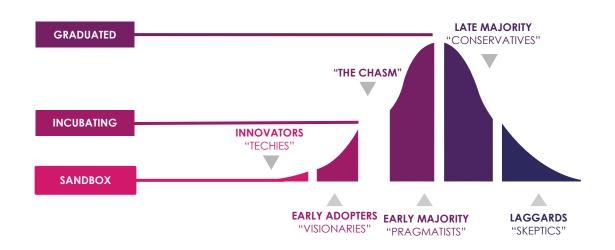


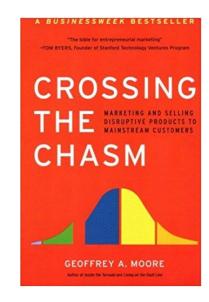


We are regularly adding projects; for the most up-to-date listing of all projects visit tlfprojects.org



CNCF Project Maturities







CNCF Project Statistics

Distribution by maturity

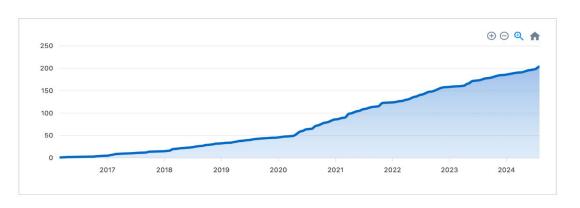
204TOTAL

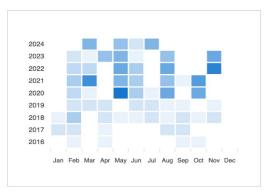
10 (4.90%) ARCHIVED

26 (12.75%) GRADUATED

37 (18.14%) INCUBATING 131 (64.22%) SANDBOX

Accepted over time







Sandbox Projects





































Fluid



HEADLAHP

MICROCKS

PARSEC













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Porter

THEFT











Incubating Projects













































































Graduated Projects



















































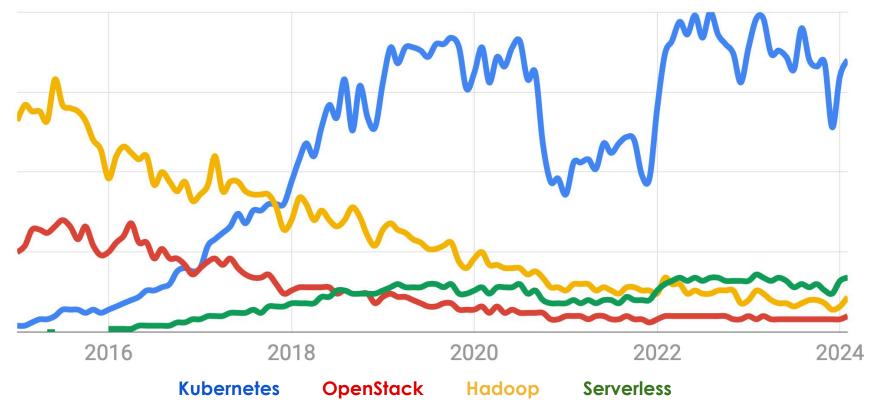


Why Organizations Are Adopting Cloud Native

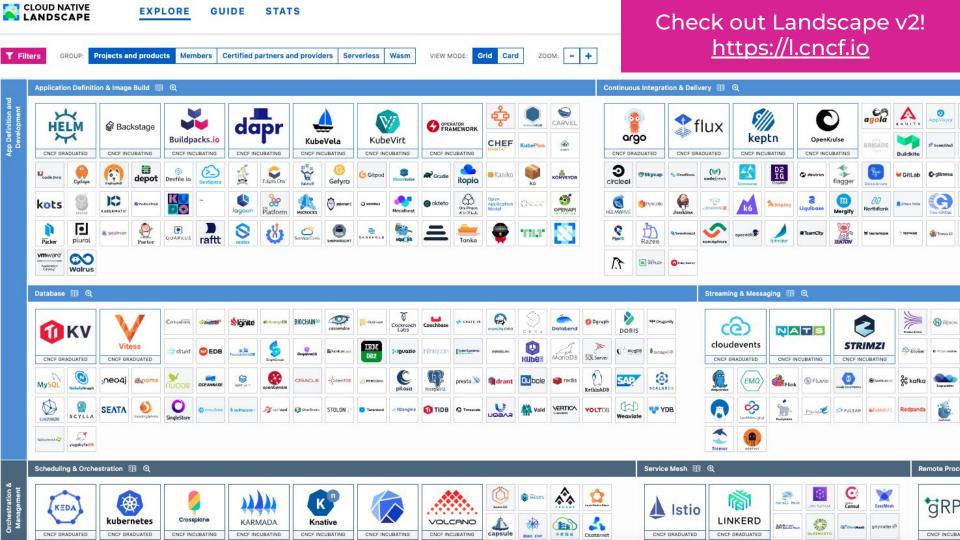
- Better resource efficiency lets you to run the same number of services on less servers
- Improved resiliency and availability: despite failures of individual applications, machines, and even data centers
- Cloud native allows multi-cloud (switching between public clouds or running on multiple ones)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



Kubernetes in Search Trends







KubeCon + CloudNativeCon





Marketing Amplification and Brand Awareness

Broaden your reach and awareness in the community with CNCF marketing programs.

As a member you can participate in:



CNCF Marketing Committee

Participate in the marketing committee monthly to engage with your peers in the cloud native space.



<u>Kubernetes Blogs</u> + <u>KubeWeekly</u>

Both of these are community-driven efforts. CNCF members can submit cloud native stories and tutorials with the community.



CNCF Online Programs

Showcase your organization's open source technology by educating new and existing community members about best practices, trends, and new technologies through webinars, videos, and livestreams.



<u>KubeCon + CloudNativeCon</u>

CNCF organizes the world's largest open source developer conferences focused on cloud native technologies.



CNCF Blog

Showcase your thought-leadership and industry commentary, as well as share technical walkthroughs for CNCF projects here.



Public Relations & Analyst Relations Support

CNCF supports members with bi-yearly analyst reports including Top Analysts by keyword, quotes, and research highlights.

Community Engagement

CNCF is a constellation of open source projects. Members of CNCF leverage many programs to engage with our project's ecosystems and share their stories. As a member you can participate in:



End User Case Studies

End User stories help elevate the technical conversations to business objectives and challenges. This program features real-world use cases and the impact these cloud-native projects are having on end users' businesses.



Kubernetes Community Days

Run a local event to bring together the cloud native community in your region. CNCF provides the platform, guidelines, and tooling to help make your event a success.



Ambassador Program

Become a cloud native advocate and be recognized for your expertise in the cloud native space. You will be empowered to educate local communities around the world to learn about CNCF projects and technologies.



Linux Foundation Membership

The Linux Foundation (LF) is the organization of choice for building sustainable open source ecosystems. When you join CNCF, you also join the LF. This allows your organization to engage with the larger open source community, including representatives from more than 1,000 of the top technology companies around the world.



Kubernetes.io Partner Placement

The kubernetes.io partner page includes separate lists for Certified Kubernetes, KCSP, and KTP partners. One CNCF member reports that 18% of their incoming leads start from kubernetes.io or cncf.io.



Thank you!





Join our Whatsapp group!

CNCF Coimbatore Community

WhatsApp group



Follow our CNCF Community

