Cloud Native in the Post-Pandemic Era

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Hello - I’m Priyanka!

• GM, CNCF
  – @pritianka on Twitter
  – Advisor, Heavybit Industries

• Formerly,
  – Cloud Native Alliances and Evangelism, GitLab
    • CNCF Governing Board Member
  – Head of Marketing and Partnerships, LightStep
    • Early Contributor to the OpenTracing project
  – And many years ago, started my career at Google
Building sustainable ecosystems for cloud native software

The Cloud Native Computing Foundation (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 nonprofit Linux Foundation.
This talk is special to me because …
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Jan + Feb 2021 progress
This talk is special to me because ...

Soon! (Not yet, hang tight!)
“... Just as the terms “prewar” and “postwar” are commonly used to describe the 20th century, generations to come will likely discuss the pre-COVID-19 and post-COVID-19 eras.

Pre-Pandemic Era: The Rise of Cloud and 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.
We Grew a Global Community for Cloud Native

• To reach critical mass, we built a global community through events
• Our strategy has paid dividends for our community!
Growth all around!

- Within four years, cloud native became the fastest growing open source community in the world.
- All major cloud providers became platinum members.
- We hosted the largest open source conferences in the world.

Dan Kohn - the man in the arena 🙏🏼
During-Pandemic: Acceleration of cloud and cloud native
Cloud Native Computing Foundation

• CNCF hosts 80+ projects

Graduated Projects

Incubating Projects

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The world’s largest cloud and software companies …

• We have 610+ member companies

Platinum Members

Gold Members

Academic/Nonprofit Members

Check out our end user members here
and innovative startups - 610+ members

Silver Members

See all Silver members in the member landscape!
Check out all cloud native acquisitions here!
Pandemic Era vs Pre-Pandemic: Solid Growth

Members
- 2019: 518
- Today: 612
20% Growth

Contributors
- 2019: 81,298
- Today: 118,326
46% Growth

Projects
- 2019: 44
- Today: 85
93% Growth
Containers and Kubernetes are the norm today

- The use of **containers** in production has increased to **92%**, up from 84% last year, and up **300%** from our first survey in 2016.

- **Kubernetes** use in production has increased to **83%**, up from 78% last year.
You may wonder …

SO HOW DID THIS HAPPEN?!
Diversity-Powered Resilience of #teamCloudNative

- 6.5 million Cloud Native Developers
- 2.7 million using Kubernetes
- 4 million using serverless architectures and cloud functions
- +1.8 million from Q2 2019
- 60% of backend developers now using containers
Consumption + Creation + COVID-19

- **Market shift in innovation** — from legacy IT vendors to cloud providers and open-source communities.
  - 92% of CNCF survey respondents are using containers in production [1]

- **By 2025**, nearly two-thirds of enterprises will be prolific software producers with code deployed daily
  - Over 90% of new apps cloud native, 80% of code externally sourced, & 1.6 x more developers". [2]
  - Expansion and verticalization

- **The coronavirus outbreak** is expected to accelerate shifts to the cloud. ~60% of respondents to the State of the Cloud report said cloud usage would exceed prior plans owing to the COVID-19 pandemic. [3]

[1] See 2020 CNCF Survey results
Post-Pandemic Era: The building blocks for the Intelligence Age
The future is bright 🌟

- #teamCloudNative is a community of doers
- We are expanding into various technology and industry verticals
- End users are thriving and growing and contributing back
The Building Block of the Intelligence Age

- The Intelligence Age will develop from our plethora of data, modern compute at the Edge, ever-smarter neural networks, and decentralization.

- All these technologies can come together only when they are backed by cloud native principles.
Want to know more?

Learn more about my thoughts on the coming Information Age and the cloud native community’s role in it imminently at KubeCon + CloudNativeCon EU May 4-7th, 2021

Special code: KCEUVLFM50

Registration link:
https://events.linuxfoundation.org/kubecon-cloudnativecon-europe/
Thank you!

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