THE RISE OF OPEN INFRASTRUCTURE

HELLO!

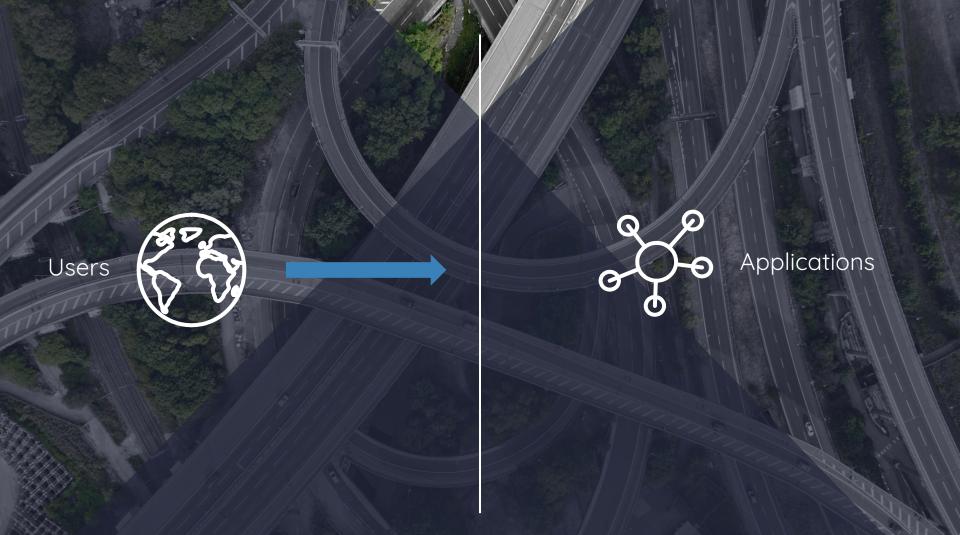
My name is Thierry Carrez

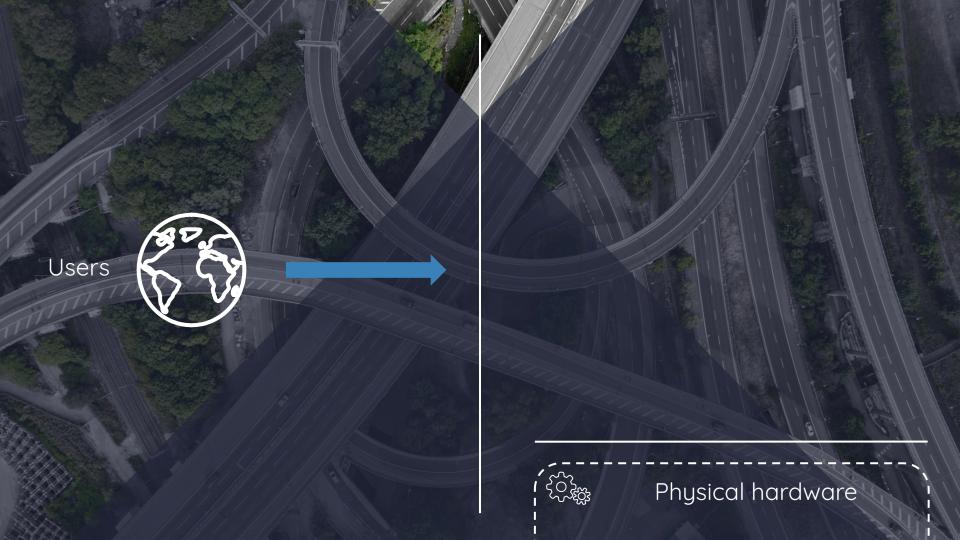
General Manager at Open Infrastructure Foundation (previously known as the OpenStack Foundation) Vice-chair at Open Source Initiative (OSI)

@tcarrez@fosstodon.org on the Fediverse

WHAT IS OPEN INFRASTRUCTURE

Providing infrastructure using open source solutions









Users





Hardware virtualization

 \mathcal{SS}





laaS APIs

SS

Hardware virtualization



Cloud-native applications Users Programmable infrastructure



laaS APIs

SS

Hardware virtualization





laaS APIs

Hardware virtualization



an HH

Physical hardware



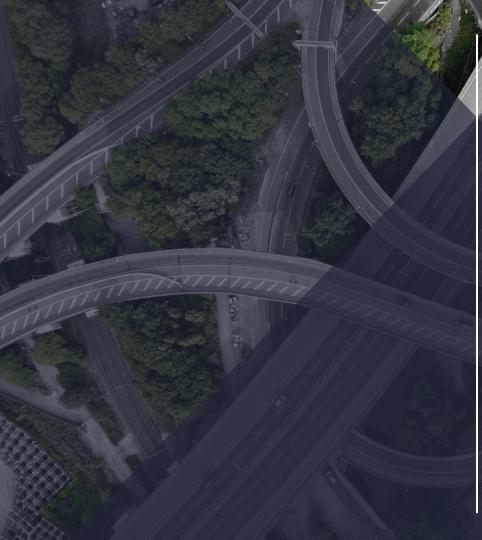
Users



Infrastructure providers



Users



Infrastructure





→ Availability

→ Availability→ Sustainability

→ Availability

- Sustainability
- Transparency and self-service

- → Availability
- Sustainability
- Transparency and self-service
- → Influenceability

CAPABILITIES

One size does not fit all.

Some features are just overpriced (GPUs).

Some features are just missing.



SUNIVED STATES OF ANTICAL Cost compared to relying on hyperscale public clouds

PHUBIANO (1839144 ENCOVER)

VITED STATES OF AMERICA

WASHINGTON, D.C.

HE REAL ALAN

E UNITED STATES (

Cost compared to providing infrastructure using proprietary solutions or starting from scratch



→ Enable interoperability

→ Enable interoperability → Make technology available to all

→ Enable interoperability
 → Make technology available to all
 → Allow permissionless innovation

→ Enable interoperability
 → Make technology available to all
 → Allow permissionless innovation
 → Reduce waste

FOUNDATION



Platinum Members



2. THE PAST DECADE

The birth of Open Infrastructure

→ A pure laaS cloud

→ A pure laaS cloud
→ For private and public use cases

- → A pure laaS cloud
- → For private and public use cases
- → Developed under the 4 Opens

- → A pure laaS cloud
- → For private and public use cases
- → Developed under the 4 Opens
- → A huge success

KUBERNETES

In OpenStack footsteps

KUBERNETES

→ In OpenStack footsteps

Standardizing the app deployment layer

KUBERNETES

→ In OpenStack footsteps

Standardizing the app deployment layer

Assumes a cloud underneath

KUBERNETES

- → In OpenStack footsteps
- Standardizing the app deployment layer
- Assumes a cloud underneath
- → A huge success too



→ Kata Containers

Ceph

→ Kata Containers→ ... and all the others

Ceph

3. THE NEXT DECADE

The reign of Open Infrastructure

OPENSTACK IS MORE USED THAN EVER

60% YoY growth in our 2022 user survey

OPENSTACK IS MORE USED THAN EVER

→ 60% YoY growth in our 2022 user survey

40 million CPU cores managed by OpenStac

40M CPU CORES



OPENSTACK IS MORE USED THAN EVER

→ 60% YoY growth in our 2022 user survey
 → 40 million CPU cores managed by OpenState
 → Existing users increasing their footprint

OPENSTACK IS MORE USED THAN EVER

→ 60% YoY growth in our 2022 user survey
 → 40 million CPU cores managed by OpenState
 → Existing users increasing their footprint
 → But also lots of new users

NEW PUBLIC CLOUDS



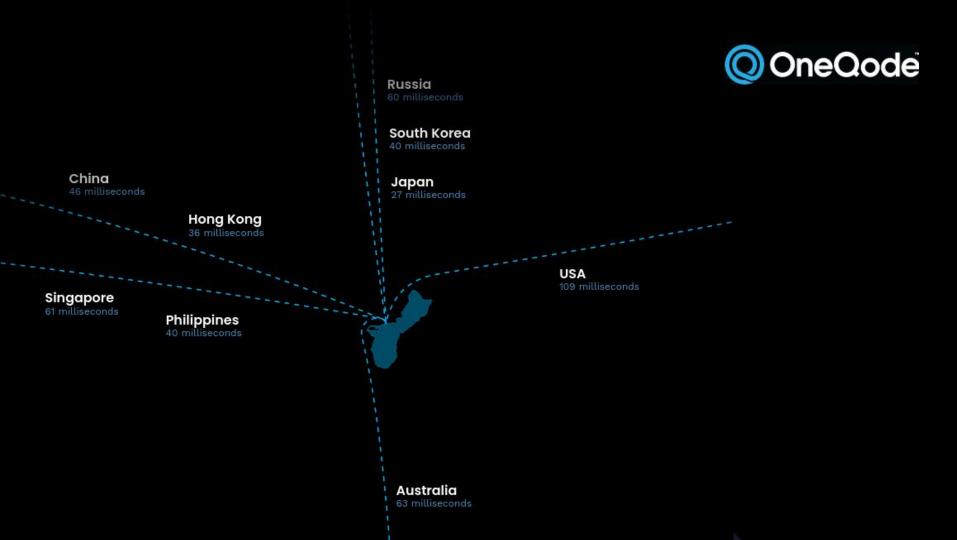
NEW PUBLIC CLOUDS

→ Digital sovereignty

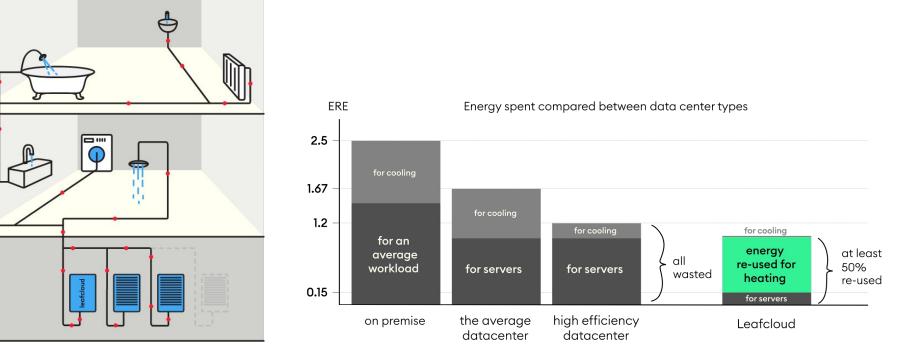
NEW PUBLIC CLOUDS

- → Digital sovereignty
- → Drives adoption in research as well

INNOVATION EVERYWHERE







→ More projects

- → More projects
- → More adoption

- → More projects
- \rightarrow More adoption
- → Join us! openinfra.dev/join

JOIN US IN VANCOUVER!

→ JUNE 13-15, 2023

OpenInfra SUMMIT > VANCOUVER '23

REGISTRATION & SPONSORSHIP AVAILABLE

openinfra.dev/summit/vancouver-2023



THANKS!

Learn more about Open Infrastructure at: https://openinfra.dev

Questions?

You can reach me at @tcarrez@fosstodon.org on Mastodon Or email me at thierry@openinfra.dev

Credits

Presentation template by SlidesCarnival.com (licensed under CC-BY-4.0) Photographs by Unsplash.com (licensed under Unsplash licence)