

OPEN INFRASTRUCTURE KEEPS THE WORLD CONNECTED

OPENINFRA PROJECT AND ECOSYSTEM UPDATE





WE BUILD OPEN SOURCE SOFTWARE FOR INFRASTRUCTURE









Platinum Members



















Gold Members











































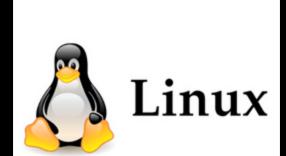


UNITING FORCES FOR OPEN INNOVATION





THE OPEN SOURCE STANDARD: OPENINFRA BLUEPRINT







OPENINFRA.ORG/BLUEPRINT





OPEN SOURCE FOR INFRASTRUCTURE IS WHAT WE DO





OpenStack from A to Z

| Austin | - 2010 | October |
|--------|--------|---------|
|--------|--------|---------|

Bexar - 2011 February

Cactus - 2011 April

Diablo - 2011 September

Essex - 2012 April

Folsom - 2012 September

Grizzly - 2013 April

Havana - 2013 October

Icehouse - 2014 April

Juno - 2014 October **Kilo** - 2015 April

Liberty - 2015 October Mitaka - 2016 April

Newton - 2016 October

Ocata - 2017 February Pike - 2017 August

Queens - 2018 February

Rocky - 2018 August

Stein - 2019 April

Train - 2019 October

Ussuri - 2020 May

Antelope - 2023 March

Bobcat - 2023 October

Caracal - 2024 April

Wallaby - 2021 April

Xena - 2021 October

Yoga - 2022 March

Zed - 2022 October

Dalmatian - 2024 October

Epoxy - 2025 April

Flamingo - 2025 October - Upcoming

Victoria - 2020 October



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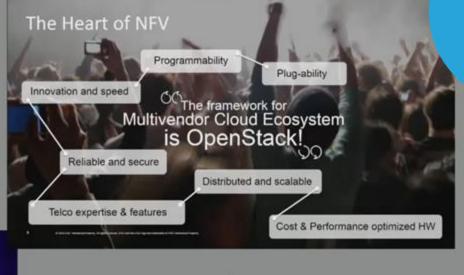


€ at&t

Toby Ford

AVP, IT

Operations Strategic Realization
AT&T



openstack summit BACK IN **2014**









GATHER A
COALITION OF KEY
STAKEHOLDERS

DEFINE GAPS IN
CURRENT OPEN SOURCE
INFRASTRUCTURE
SOFTWARE

COORDINATE UPSTREAM WORK



TODAY

9/10 WORLD'S LARGEST TELCOS

POWER THEIR NETWORK WITH **openstack**.



OpenStack 2025.1 'Epoxy' Highlights

Nova

- Nova's PCI pass-through feature now supports new kernel vfio-PCI variant drivers such as NVIDIA GRID on Ubuntu 24.04. Operators can now create instances using those specific PCI devices and also live-migrate them, which strengthens OpenStack's ability to support AI workloads.
- The nova-scheduler service now does leader election in an attempt to have only one run host discovery periodically (if configured) instead of all of them running it all the time in parallel.

Octavia

Octavia now supports using SR-IOV virtual functions for the backend member networks.

Tacker

 Added a set of setup scripts for users enable to run complex E2E tests or evaluate practical use cases.



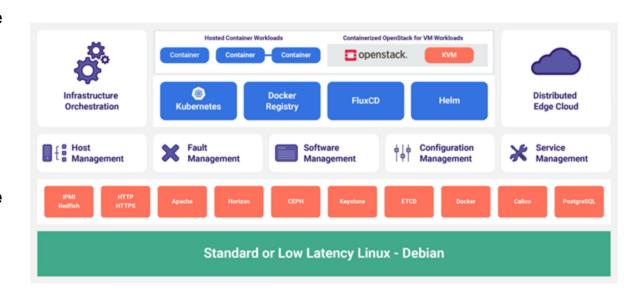
StarlingX - Follows the OpenInfra Blueprint

StarlingX provides a **deploymentready**, **scalable**, **highly reliable** edge infrastructure software platform.

StarlingX platform services focus on

- Easy deployment
- Low touch manageability
- Rapid response to events
- Fast recovery
- Distributed Cloud architecture

Currently **running in production** at large telecom operators such as **T-Systems, Verizon, Vodafone, KDDI**, and more.





StarlingX 10.0 Highlights

- Manageability New Unified Software Management Framework
 - Carry out upgrades and apply patches from one subsystem
 - REST API/CLI interface
- Robustness New Test Automation Framework
 - It's used upstream and allows users to set it up and run the same tests in their local environment

Security

- Integrating the Harbor container registry
- IPsec support on L2 networks
- Networking improvements
 - IPv4/IPv6 dual-stack support



The speed of containers,

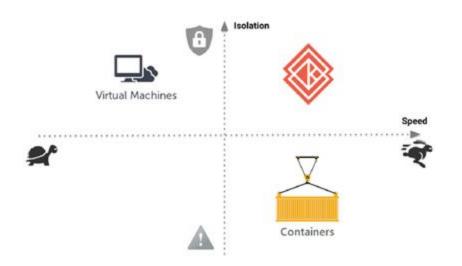
the security of VMs.

Kata Containers is an open-source container runtime, building lightweight virtual machines that seamlessly plug into the container's ecosystem.

Evolution



the speed of containers, the security of VMs.



- 2015 Intel launches ClearContainers open source project
- 2017 Merger of Hyper.SH runV and Intel® ClearContainers projects under OpenInfra Foundation
- ♦ ··· May 2018 − V1.0 released
 - Container/pod isolated by lightweight VM.
 - OCI-compatible runtime
- 2019 Alibaba, Tencent, Baidu,
 Huawei, Stackpath put Kata Containers in production
- October 2020 V2.0 released
 - Rust-agent for improved performance
- October 2022 V3.0 released
 - New experimental Rust runtime
- July 2024 V3.7.0 released, becoming the
 base for the first CoCo release



Highlights



OCI-compatible runtime that enhances the security of container workloads in a lightweight virtual machines.

Works seamlessly with Kubernetes and Docker and is a drop-in replacement for runc

Open Source
Open governance
project under the

Open Infrastructure Foundation umbrella

Multi Architecture x86, ARM, IBM Power, IBM s/390x Multi
Hypervisor
QEMU,
Cloud Hypervisor,
Firecracker,
Stratovirt







katacontainers.io



CASE STUDY



katacontainers.io







110,000 COMMUNITY MEMBERS

USERS
DEVELOPERS
ECOSYSTEM



A LOOK INTO THE FUTURE

Cybersecurity is in the Focal Point

le: Growing interest in Kata Containers as a secure container runtime

6G and beyond

Already in the works, but there's a lot to be done

O-RAN and vRAN rollouts

Ie: Vodafone's deployments in Europe with StarlingX

AI in Networks?!

Moving beyond chatbots to accelerate data analysis and more



Forbes

FORBES > INNOVATION > CLOUD

VMware Customers Cautious after Recent Broadcom Actions

ComputerWeekly.com

Uncertainty lingers with Broadcom's VMware acquisition

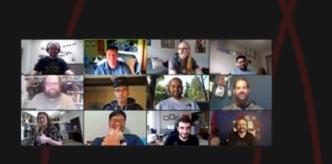
OVER 60% OF OPENINFRA MEMBERS HAVE ALREADY MIGRATED A CUSTOMER FROM VMWARE TO AN OPENSTACK-BASED PRODUCT





OCTOBER 17-19, 2025
PARIS-SACLAY, FRANCE

OPENINFRA.DEV/SUMMIT →









JOIN US!





