

# Keynote - State of Ceph

Neha Ojha  
Ceph Day Raleigh - 2026.03.25



## *Meet the speaker*

Neha Ojha - Program Director, Ceph, IBM

- Leader of Core Ceph Development at IBM
- Ex-tech lead RADOS (2018 – 2023)
- Member of the Ceph Executive Council
- Member of the Ceph Foundation Board



# *Where we stand in terms of contributions...*

*Two decades of revolutionizing storage!*

- ~1500 contributors
- 700K+ lines of source code changed
- ~160K+ overall commits

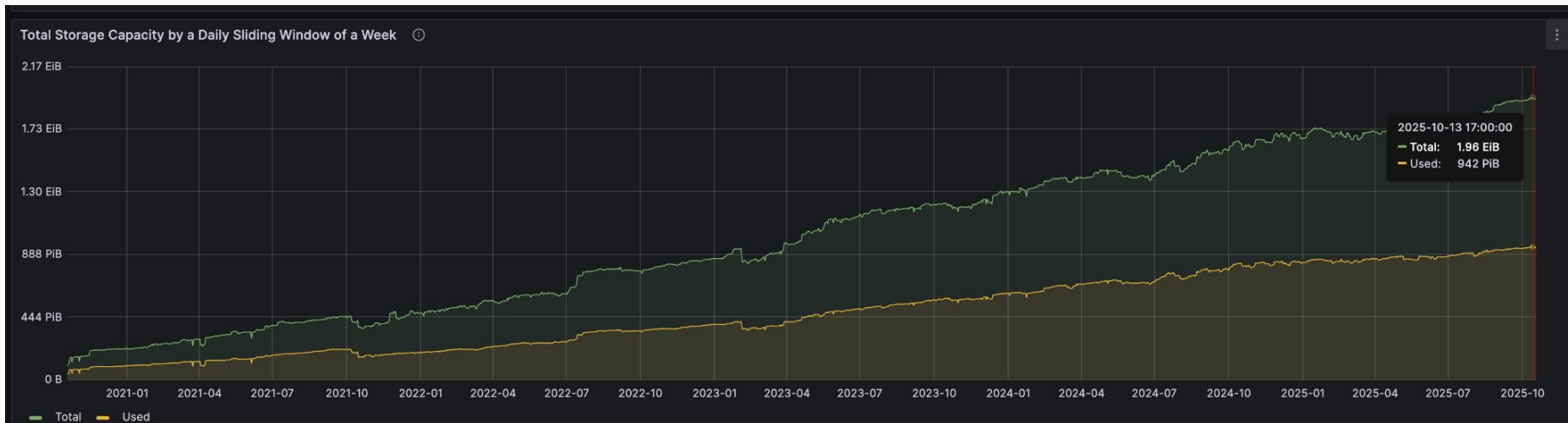


# Ceph's popularity over the last 5 years



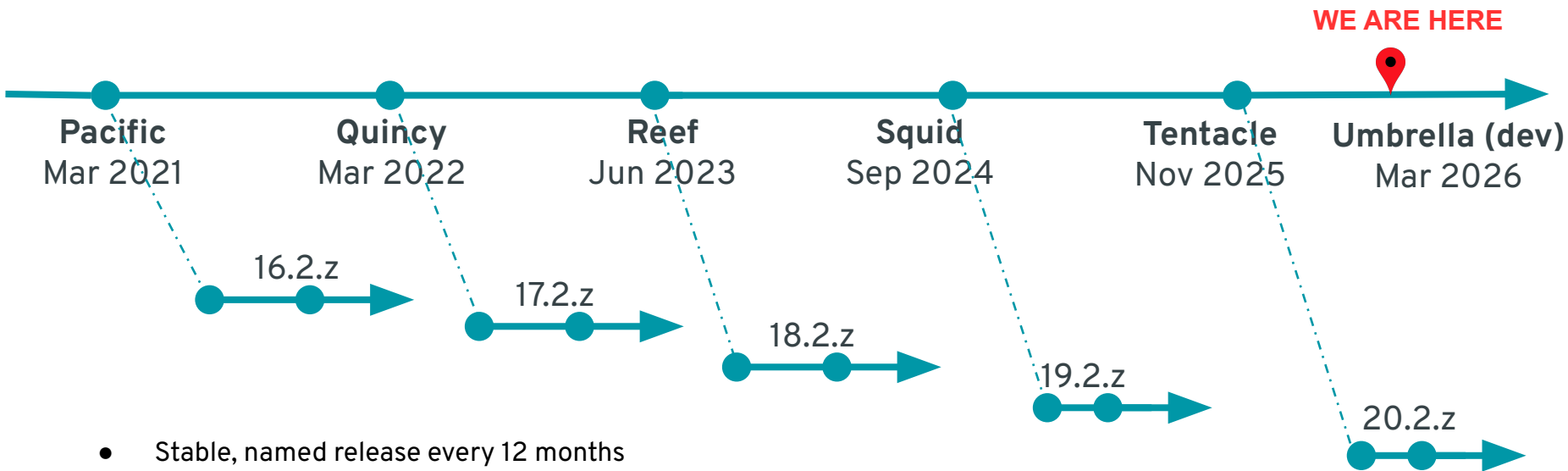
# *Ceph's adoption over the last 5 years via Telemetry*

Ceph has 2 Exabytes storage footprint reported via telemetry!



See more at <https://telemetry-public.ceph.com/>

# Ceph Release Schedule



- Stable, named release every 12 months
- Backports for 2 releases
  - 18.2.8 will be the final Reef release
- Upgrade up to 2 releases at a time
  - Pacific → Reef, Quincy → Squid, Reef → **Tentacle**

# *Project Milestones*

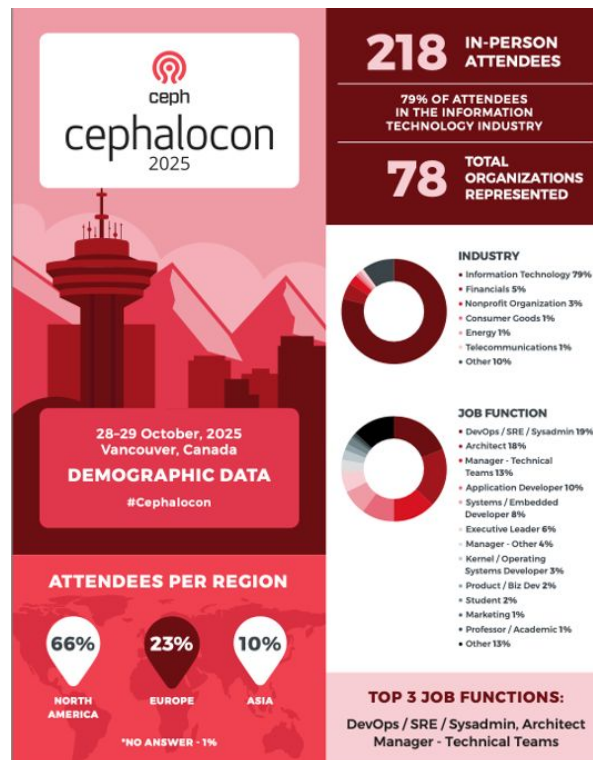
- Releases
  - Tentacle is the latest GA release
  - Umbrella (21.x.x) is in dev phase
  - The V release has been unanimously named as Vampire!
- Ceph upstream community engagement
  - [Ceph User Council](#) initiative
  - [Slack](#) for community engagement (**Slack Pro enabled!**)
  - Ceph [Meetup](#) group
- Upstream Sepia Lab services (development, testing, performance, release) have been migrated from Red Hat to IBM infrastructure
- Ceph Tech Talks have been revived in 2026!
- New community Ceph Release Engineering community meeting
- Ceph subreddit is back!
- Community outreach continues
  - Google Summer of Code

# *Major Technical Accomplishments*

- RADOS: Much-awaited Fast EC is available!
  - Substantial performance and capacity improvements for block, file and object workloads
- RGW: AWS IAM accounts, these permit fine-grained control over roles, identities, and permissions to customers/tenants, with AWS-compatible self-service apis (See blog at [ceph.io](https://ceph.io))
- CephFS: Case-insensitive directory trees, for interoperability with kernel, ceph-fuse, nfs, samba
- RBD: New live migration features and support for RBD namespace remapping while mirroring between Ceph clusters.
- NVMe-oF: GA of the NVMe-oF GWs with HA support
- Dashboard: IAM account management and RGW feature additions, SMB management, NVMe workflow additions
- Cephadm: Certificate management and several scalability enhancements
- Crimson: SeaStore Tech Preview in Tentacle

# Community Event Updates

- **Cephalocon 2025 Vancouver** was a success!
- **Events Updates - 2026**
  - Ceph Day India, March 12, 2026
  - Ceph Meetup Frankfurt, March 12, 2026
  - Ceph Day Raleigh, March 25, 2026 🎉
  - Ceph Day London, June 17, 2026
  - Other Ceph Days being discussed
    - South Africa
    - Seattle
    - Chicago
    - New York
    - Tokyo
    - Germany
    - Austria
    - France



**Let's go!**