CephFS
1. A non-blocking I/O API for librados has been added to Ceph: 48038
2. A cause of potential deadlock in Python librados has been fixed, which also affected the mgr modules using it: 52290
3. MDS: acquisition throttles have been adjusted to more sensible defaults: 43546
4. MDS: Buggy clients are now evicted in order to keep MDS available: 52944

Cephadm
1. Support for init containers has been added. Init containers allow custom actions to run before the daemon container starts: 52178
2. We announce the deployment of the NVMe-oF gateway: 50423, 52691
3. LV devices are now reported by ceph-volume in the inventory list, and can be prepared as OSDs: 52877
4. cephadm is now split into multiple files in order to make it easier for humans to read and understand. A new procedure has been added to the documentation that describes how to acquire this new version of cephadm: 53052

Crimson
1. Support for multicore has been added to Crimson: 51147, 51770, 51916, 52306
2. Infrastructure to support erasure coding has been added to Crimson: 52211
3. We announce the introduction of a performance test suite for Crimson: 50458

Dashboard
1. RGW multisite configuration can now be imported from a secondary cluster or exported to a secondary cluster: 50706
2. We announce several upgrades to the Cluster User Interface and the Cluster API: 52351, 52395, 52903, 52919, 52222, 53022
3. More detail has been added to the RGW overview. This includes more granular information about daemons, zoning, buckets, sers, used capacity (the capacity used by all the pools in the cluster). Cards detailing these assets have been added to the rgw overview dashboard: 52317, 52405, 52915
4. It is now possible to manage CephFS subvolumes from the dashboard. This includes creating subvolumes, editing subvolumes, removing subvolumes, creating subvolume groups, editing subvolume groups, removing subvolume groups, removing subvolume groups with snapshots, and displaying subvolume groups in the CephFS subvolume tab: 52786, 52861, 52869, 52886, 52898, 53018, 53182, 53246

RADOS
1. Improved robustness against disk corruption of key data structures—OSD superblock data is now replicated in an onode’s OMAP, which makes recovery possible even when onode data is corrupted: 50326
2. We introduce a disk-fragmentation histogram for bluestore, accessible through an admin socket: 51820
3. The amount of metadata necessary to create a snapshot has been significantly reduced, making snapshot creation and deletion more efficient: 53178
4. ceph-mgr is now more resilient to blocklisting—cluster connections between MGRs and RADOS clients are now reopened when this occurs: 50291
5. LZ4 compression can now be enabled for Bluestore RocksDB: 53343

RGW
1. Support for versioned objects has been added to emergency bucket repair tools, and rgw-restore-bucket-index can now recognize versioned buckets and RGW objects that have names beginning with underscores: 51071
2. Multisite sync load is now distributed fairly across gateways: 51493
3. Several issues have been fixed, and Trino/TPCDS benchmark now runs with s3select: 52651, https://github.com/ceph/s3select/pull/132
4. An initial version of a posix-fs backend for RGW has been developed: 52933

Telemetry
1. Over the past two months, Telemetry reports a storage capacity of 27PB from ≈170 Reef clusters. Approximately 2,800 clusters report ≈1.2EB, including the 27PB from the Reef clusters. See telemetry-public.ceph.com.

User+Dev Meeting Relaunched
1. Neha Ojha and Laura Flores organized the relaunch of the User+Dev meeting, which was held on 22 Sep 2023. Two members of the Ceph upstream community gave presentations at this meeting. These were: Cory Snyder of 11:11 System’s “What To Do When Ceph Isn’t Cephing” (PDF link) and Jonas Sterr of Thomas Krenn AG’s “Ceph Usability Improvements” (PDF link). The minutes of this meeting are available here: https://pad.ceph.com/p/ceph-user-dev-monthly-minutes.
2. The User+Dev Meeting is held at 14:00 UTC on the third Thursday of every month.
3. https://meet.jit.si/ceph-user-dev-monthly is where the meeting is held.

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