WildFire Storage

More performance. Less hardware. Lower cost.

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S3 object storage for cloud providers

maxObject

Object storage, built around the hard drive.

WHY IT'S DIFFERENT

More terabytes to sell, faster service, and full protection back in minutes — on CMR or host-managed SMR hard drives.

Beta Q1 2027 · general availability Q2 2027

+35%

usable capacity vs Ceph RGW in the same drive slots[1]

More to sell. Same racks.

+65% with host-managed SMR drives.

120K vs 10K

small reads per second across the cluster, vs Ceph RGW — one drive per read, not twelve[2]

More customers served from the same drives.

<30 min

to rebuild a failed 26 TB drive — the larger the cluster, the faster[3]

Back to full protection, fast.

What you get

CMR and SMR drives.
Conventional and host-managed SMR drives of any size, mixed in one cluster.

Packed stripes.
Many objects share each erasure-coded stripe, so a read usually touches one drive.

Streaming writes.
Writes are buffered in RAM, protected across nodes, and streamed to every drive.

Tenants and billing.
Multi-tenant accounts with IAM-style users and policies, quotas and billing rules.

Leaner servers.
Under 20% of the flash Ceph RGW needs, and memory that doesn't grow with drive count. One kind of server does everything.

Simple to run.
One daemon per server. Self-healing. No placement-group tuning.

Specifications

API	S3-compatible; AWS SDKs and CLI work as-is
Protection	Any four drive losses (36+4L+3G local reconstruction codes)
Performance	Drive time per small read about 8 ms (Ceph RGW about 96 ms); per small write about 0.5 ms (about 128 ms)
Tiers	Hard-drive and QLC/PLC flash servers in one cluster, by S3 storage class
Recovery	Failed 26 TB drive rebuilt in under 30 minutes, while customers keep reading and writing

Drives	CMR and host-managed SMR hard drives, any size, mixed in one cluster
Multi-tenancy	Accounts, IAM-style users and policies, quotas, billing rules, storage tiers by contract
Fill level	About 85% (Ceph RGW: about 70%)
Integrity	Checksums end to end: objects, blocks, metadata and transfers
Growth	Add servers or drives of any size, with no rebalancing storm

Talk to our team about object storage on CMR and SMR drives.

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1. maxObject is pre-release. Usable capacity in the same 1,000 drive slots, protection against any four drive losses: maxObject on 26 TB CMR drives (+35%) and 32 TB host-managed SMR drives (+65%) vs Ceph RGW 12+4 on 26 TB CMR drives.
2. Design arithmetic from published drive specs and IBM Cloud Object Storage traces, not benchmarks; 1,000 drive slots, Ceph RGW 12+4.
3. Design arithmetic: a full 26 TB drive, 50 servers × 24 drives at 12+4, drive-limited. Smaller clusters take longer; partly full drives less.

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