WELCOME TO CEPH

Ceph uniquely delivers **object, block, and file storage in one unified system**.

CEPH OBJECT STORE

- RESTful Interface
- S3- and Swift-compliant APIs
- S3-style subdomains
- Unified S3/Swift namespace
- User management
- Usage tracking
- Striped objects
- Cloud solution integration
- Multi-site deployment
- Multi-site replication

See Ceph Object Store for additional details.

CEPH BLOCK DEVICE

- Thin-provisioned
- Images up to 16 exabytes
- Configurable striping
- In-memory caching
- Snapshots
- Copy-on-write cloning
- Kernel driver support
- KVM/libvirt support
- Back-end for cloud solutions
- Incremental backup
- Disaster recovery (multisite asynchronous replication)

See Ceph Block Device for additional details.

CEPH FILESYSTEM

- POSIX-compliant semantics
- Separates metadata from data
- Dynamic rebalancing
- Subdirectory snapshots
- Configurable striping
- Kernel driver support
- FUSE support
- NFS/CIFS deployable
- Use with Hadoop (replace HDFS)

See Ceph Filesystem for additional details.

Ceph is highly reliable, easy to manage, and free. The power of Ceph can transform your company's IT infrastructure and your ability to manage vast amounts of data. To try Ceph, see our Getting Started guides. To learn more about Ceph, see our Architecture section.