



# Highly Available Object and Block Storage

## FrostByte with Red Hat Ceph Storage

Enterprise storage is at a crossroads. The demand for storage continues to escalate exponentially, yet IT storage budgets remain flat or see only linear increases. Beyond just capacity, there is growing demand for flexibility, application-tunable features, and web-scale functionality, all to meet rapidly changing businesses requirements. Traditional, monolithic storage appliances simply are not equipped to keep up with modern business needs.

Penguin Computing FrostByte™ solutions lift the limitations imposed by traditional storage appliances and empower businesses with open, agile, scale-out, and cost-effective software-defined storage solutions. FrostByte features include:

- top-of-class hardware.
- engineered designs for optimal performance and reliability.
- configurable capacity, data-protection and performance.
- highly scalable architectures.
- robust data protections.
- simplified administration.
- expert support and professional services.
- on-premise and managed hosting options, including SysAdmin-as-a-Service.
- backed by two of the oldest and most trusted open technologies companies in the industry.

## About Penguin Computing

Penguin Computing® is the largest, private, North American supplier of Linux®-focused hardware, software, and services for enterprise data center, high performance computing, and cloud solutions. Penguin Computing pioneers the design and engineering of open technologies, including its efficient, high density Tundra® platform for HPC and scale-out data center.

Leveraging decades of experience, Penguin Computing delivers top-of-class services and support, and also operates the leading, public HPC cloud service, Penguin Computing On-Demand™.

Visit us at [www.penguincomputing.com](http://www.penguincomputing.com).

## About Red Hat

Red Hat® is the world's leading provider of open source software solutions, using a community-powered approach to provide reliable and high-performing cloud, Linux, middleware, storage, and virtualization technologies. Red Hat also offers award-winning support, training, and consulting services.

As a connective hub in a global network of enterprises, partners, and open source communities, Red Hat helps create relevant, innovative technologies that liberate resources for growth and prepare customers for the future of IT.

Learn more at [www.redhat.com](http://www.redhat.com).

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## FrostByte with Red Hat Ceph Storage

Penguin Computing FrostByte delivers the flexibility, reliability, and scalability of Red Hat Ceph Storage with top-of-class hardware and service options. Red Hat Ceph Storage is the leading storage for OpenStack® and is ideally suited for elastic, web-scale use cases, including:

- cloud infrastructure.
- databases.
- multimedia and entertainment.
- archival and disaster recovery.
- network function virtualization.



### Key features

- Flexibility  
Support object and block storage with application programming interfaces for Red Hat Ceph Storage's native object access protocols as well as OpenStack Swift and S3.
- Elasticity  
Storage pools are abstracted from hardware, so each can be managed independently. Grow or shrink storage pools without down time and easily scale-out to exabyte capacities.
- Reliability and availability  
Striping, erasure coding, replication, and snapshots, along with self-healing and automatic rebalancing ensure data protection and resilience.
- Simplified administration  
Manage and monitor the entire storage cluster from an easy-to-use graphical console, command-line interface, or programmatically.
- Performance  
Tune with storage policies that reflect service level agreements, performance requirements, and failure domains.
- Security  
Integrate with authentication and authorization services, such as Active Directory, Lightweight Directory Access Protocol, and Keystone. Limit access at the pool, user, bucket, or data level. Implement cluster-level and at-rest encryption.

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