



# ORock Object Storage

## Key Benefits

### PRICING SIMPLICITY

Predictable, flat-rate storage pricing with no additional charges for data ingress or egress

### UNLIMITED SCALABILITY

Scales from gigabytes to exabytes

### HIGHLY REDUNDANT

Designed with no single point of failure

### SELF-HEALING CAPABILITIES

Optimizes data placement to maximize system resiliency and availability

### OPEN SOURCE

Avoids hardware and software lock-in through enterprise grade, open source, software-defined storage solutions

### AUTOMATED RE-BALANCING

Continuously monitors data utilization and infrastructure without manual intervention

### RICH SUPPORTED PROTOCOLS

Supports leading protocols such as S3, RADOS, and Swift

## THE CHALLENGE OF AFFORDABLE CLOUD STORAGE

The cloud storage market will grow exponentially over the next several years as organizations capture and mine ever-expanding amounts of customer data, business information, and rich media for big data processing and artificial intelligence (AI) purposes. Compounding this growth is the explosion of data captured and stored from Internet of Things (IoT) devices.

Organizations in the public sector and in highly regulated commercial industries already struggle to comply with increasingly complex audit and regulatory requirements. They face additional security compliance challenges as industry and government regulations require them to protect, store, archive, and access data over many months or years.

The need to leverage and store all this data is forcing organizations to create new strategies governing when, where, and how to store and archive it in a compliant, cost-effective manner. With the cloud now accepted as a mainstream option for secure data storage solutions, enterprises must rethink how best to use the cloud to augment what was typically achieved with costly on-premises solutions.

## INTRODUCING OROCK OBJECT STORAGE

ORock’s Object Storage solutions are offered at a low cost, predictable price with outstanding performance, data access and retrieval capabilities. Both Premium and Hot Object Storage tiers are available to provide unbeatable value and performance.

ORock	AWS	Azure
ORock Hot Object Storage	Amazon S3 Standard	Hot Blob Storage
ORock Premium Object Storage	N/A	Premium Blob Storage

The ORock storage model ensures instant accessibility to your data at all times with simple, affordable pricing models and no additional charge for data ingress or egress. This approach ensures you are able to actually USE your data however and whenever you need it—without extra costs—to gain valuable insight for better business and strategic decisions.

While many cloud storage providers offer object storage solutions, only the ORock value proposition includes:

- Simplicity in pricing, with no complex calculations required to understand your costs
- Always accessible and immediately available data in Hot or Premium tiers
- Predictable and flat-rate storage pricing with included data transport costs

# A SCALABLE, FLEXIBLE APPROACH TO CLOUD STORAGE

## THE OROCK PRICE/PERFORMANCE ADVANTAGE

ORock architected its cloud and infrastructure solutions to achieve tight integration between the core components of networking, compute, and storage. All ORock environments are built on open source technologies to avoid vendor lock-in and provide the flexibility to move applications and data freely. They also meet stringent government and commercial security standards including FedRAMP, HIPAA, HITECH and PCI DSS.

## ORock Storage Platform

ORock's Object Storage solutions utilize an enterprise-grade, open source Software-Defined Storage (SDS) platform that is trusted by some of the worlds largest research projects (such as CERN, Immunity Bio, Human Brain Project, and MeerKat Radio Telescope). These critical initiatives rely on the same SDS to manage petabytes of data in a cost effective, high performance, and resilient manner.

## ORock Datacenter Hardware

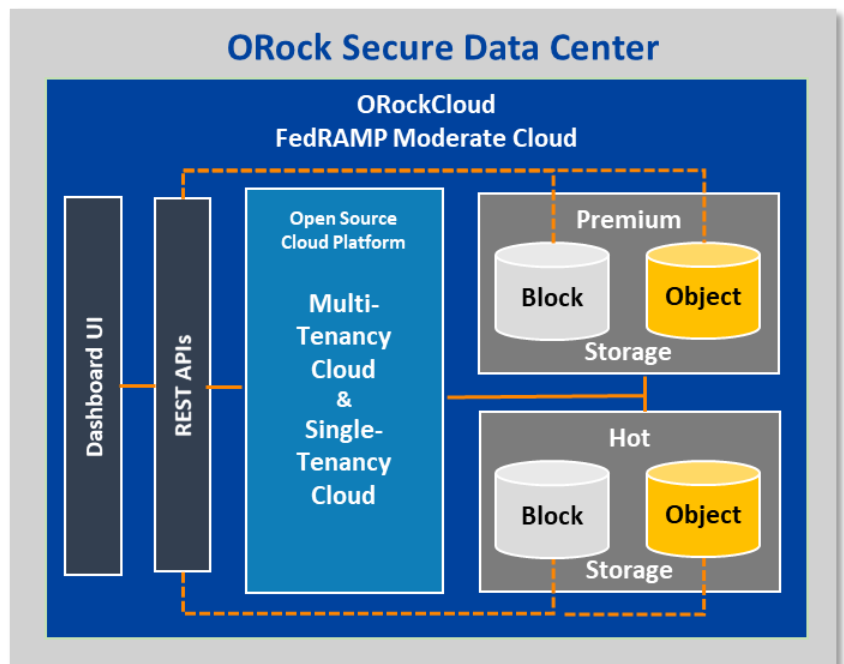
To ensure the highest degree of data security and performance, ORock partnered with Hewlett Packard Enterprise (HPE), a global leader in datacenter technology, as its exclusive equipment provider. This enables ORock to offer:

- The latest-generation storage solutions that are density-optimized for high-performance and power savings, greatly reducing datacenter costs per GB
- HPE servers and storage systems that are purpose-built for big data analytics, SDS, backup, and archiving
- HPE's Silicon Root of Trust (SROT) and HPE Supply Chain Responsibility Program for advanced levels of security and protection
- Frequent and ongoing technology refreshes through the HPE GreenLake program

## CHOOSE THE RIGHT STORAGE OPTION FOR YOUR NEEDS

**Multi-Tenant Storage**—Buy hosted storage on a flexible model or with a reserved commitment for even lower costs. Utilize ORock's fast premium block storage for workloads that demand high speed IOPS along with ORock's Hot Object Storage for cost-saving uses like backup and recovery, data warehousing, and even active archiving.

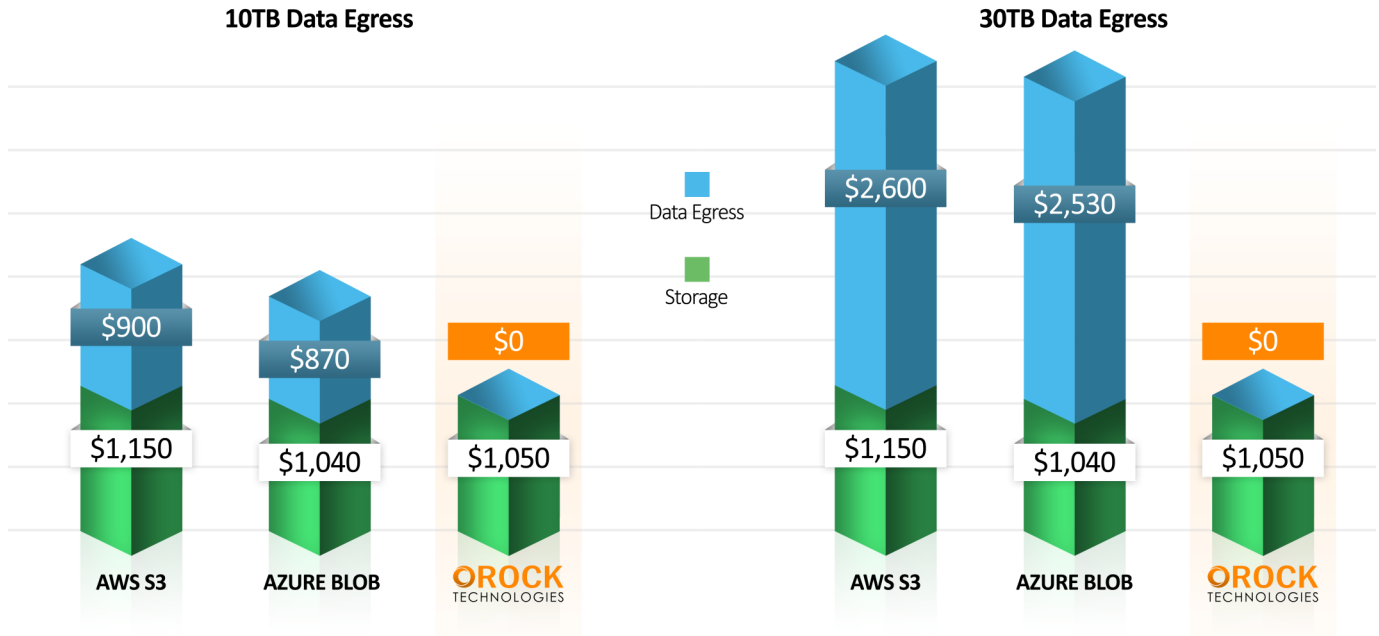
**Dedicated Storage**—For organizations that require physical isolation of their cloud compute and storage infrastructure, ORock offers single-tenant deployments. If security and control are necessary to meet compliance and regulatory requirements, ORock offers partial and even full racks of storage capacity.



# HOT STORAGE PERFORMANCE WITH NO DATA EGRESS FEES

ORock's predictable flat-rate billing model, with no additional charge for data ingress or egress fees, provides significant savings over hyperscale cloud storage options.

## ESTIMATED MONTHLY COSTS FOR 50TB OBJECT STORAGE



## WHY RELY ON OROCK OBJECT STORAGE?

### Scalability, Performance, Availability, and Durability

Scale your storage resources to meet your own unique and demanding data storage requirements. With continuous active access to your data, ORock Object Storage is ideally suited to meet big data and analytics or large data backup needs. Built-in data protection and redundancy ensure your data is ready and available when you need it.

### Comprehensive APIs for Storage Control and Management

Gain access to a variety of well-documented API operations, including request and response structures and error codes.

### Security & Compliance

Protect your data with the security of a hardened cloud that meets and exceeds government standards with up to 421 security controls. The ORock Object Storage environment is compliant with FedRAMP Moderate, FedRAMP High (Ready), Department of Defense/DISA Impact Level 2, FIPS 140-2, HIPAA/HITECH and PCI DSS.

### Object Storage

The latest advance in storage technology, object storage provides vast scalability and metadata characteristics with an architecture that manages data as objects. It offers higher resiliency due to its native replication features. It is an excellent option for building new, modern applications from scratch.

### The Ceph Advantage

Ceph open source software libraries provide client applications with direct access to the RADOS object-based storage system. The foundation for Ceph's advanced features includes RADOS Block Device (RBD), RADOS Gateway (RGW), and Ceph File System (CephFS).

## BRING PREDICTABILITY AND CONTROL TO YOUR STORAGE COSTS

ORock Object Storage offers simple, predictable pricing with no surprises and NO additional data ingress or egress fees. Access and transport your data when you need it without the risk of unexpected budget overruns. Benefits include:

- LOW cost active storage priced by GB/month for stored data
- NO charge for data ingress or data egress from the ORockCloud
- NO API request charges

ORockCloud Object Storage is available in two pricing models: Flexible, pay-as-you-go (PAYGO) and a Reserved option that provides a discount for annual commitment.

## SIMPLIFY STORAGE MANAGEMENT WITH AN OPTIONAL HOSTING TENANCY

ORock offers an optional integrated cloud hosting tenancy that provides both compute and storage benefits all in one account. ORockCloud Hosting includes:

- Feature-rich, secure open source cloud built on Red Hat OpenStack Platform
- Integrated block and object storage managed through one common interface
- Industry standard APIs for simple management of application and workloads for both storage and compute

## US-BASED SERVICE TEAMS SET YOU UP FOR SUCCESS

Our team of highly-trained engineers and security professionals will help you every step of the way to determine the best deployment options available to meet your organization's unique requirements. We start working with you early in the engagement process to understand your storage and IT needs based on your project and goals.

We provide the necessary resources and technical support to guide you through the overall process. Our engagement life cycle has been successfully proven to help shorten the time to define, configure, and migrate your compute and storage to the cloud.

