



Data Sheet  
OpenIO SDS  
Overview



## Next-Gen Object Storage Flexible. Smart. Fast.

OpenIO is an **open source Software-Defined Storage** solution that overcomes scalability and performance barriers. OpenIO provides an on-premises cloud storage solution that **surpasses the limitations of traditional object stores** while offering better functionalities.

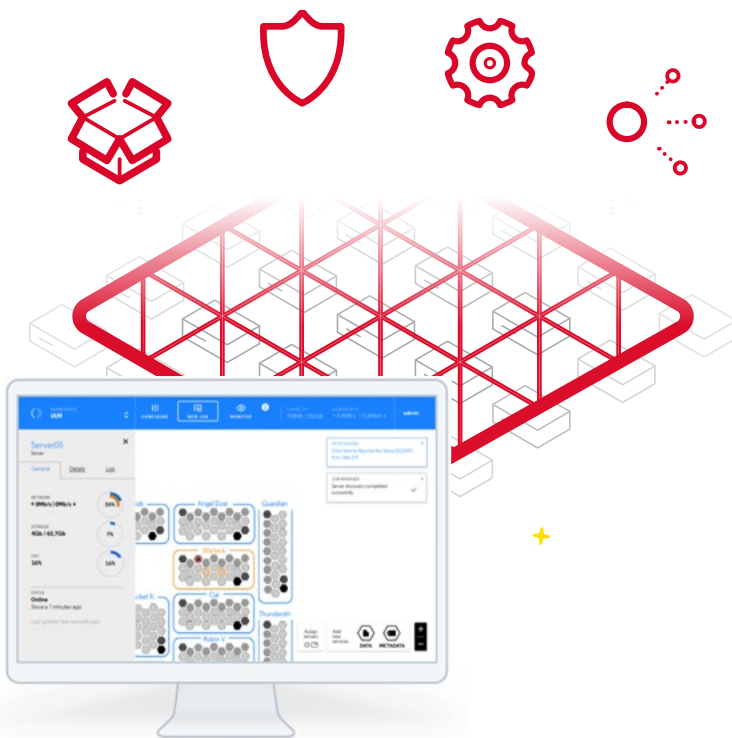
You can **store, protect, process and serve data** on a single platform.

### USE CASES

- Digital Content
- Backup
- Active Archive
- Email
- Cloud Storage
- IoT & Big Data

### HIGHLIGHTS

- **Unlimited Scalability**
- **Hardware Agnostic**
- **Native S3 Compatibility**
- **No Mandatory Data Rebalancing**
- **Lightweight & Efficient Design**
- **Up to 5x faster than traditional Object Storage on identical hardware**
- **Dynamic Storage Policies with Replication and Erasure Coding**
- **Multi-Tenancy by Design**
- **Event-Driven**



### Flexible

Combine different types of hardware and scale quickly. Easily add one node or hundreds, with no mandatory re-balancing of data when you scale.

### Smart

Simplify admin tasks. New hardware is automatically discovered and can be used immediately. Data is automatically routed and load-balanced to the best available nodes.

### Fast

Achieve peak performance and efficiency at any scale. Run it at the core of any cloud or IIoT infrastructure.

## DATA PROTECTION

OpenIO offers two data protection mechanisms:

- **Replication** for small objects supporting multiple copies, local or remote.
- **Erasur Coding** to optimize storage capacity for large objects deployed in one data center or geo distributed or stretched clusters.

## DATA ACCESS

Native Object APIs:

- **Python**
- **C**
- **Java**

Standard Object APIs:

- **Amazon S3**
- **OpenStack Swift**

Multiple file sharing and access methods:

- **NFS**
- **SMB**
- **FTP**
- **Local FUSE**

## RUNS ON

OpenIO is hardware agnostic and natively supports heterogenous hardware within a single cluster.

It runs on:

- **Any x86 server**
- **Any ARMv7 server**

OS:

- **Linux (CentOS, REHL, Ubuntu)**

## Components

### Grid for Apps

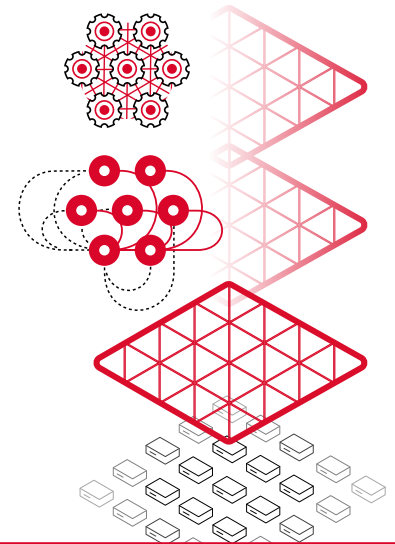
Run asynchronous operations triggered by events, natively on the storage platform.

### Conscience

Optimal data placement and dynamic load balancing based on real-time metrics.

### Grid of Nodes

No mandatory rebalancing by design. Add capacity or nodes, or change topologies, without any performance or load impact on the service.



## Why OpenIO?



### Unlimited scalability

Simple and efficient. Add one node or hundreds with no mandatory rebalancing and consistent high performance.



### Easy to use

Storage with a Conscience. Dynamic load balancing simplifies deployment, expansion, and system management, providing real time resource monitoring and fine tuning.



### Total freedom

Open source and hardware agnostic. You can mix heterogenous hardware and avoid any lock-in.



### Cost efficiency

Pay-as-you-go. Cut TCO by 80% vs. conventional storage without compromising on performance, availability, or data protection.

Learn more:  
[www.openio.io](http://www.openio.io)

Contact us:  
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