

## The Fastest Hyperconverged Infrastructure Platform

Cut your infrastructure costs by 70%

Generate ROI for High Performance when you run Hadoop.

### At-a-glance

## Sunlight Converged Infrastructure Platform

Sunlight is the fastest converged infrastructure platform for commodity hardware consisting of:



The **NexVisor** hypervisor – built from the ground-up to support today's high performance hardware technologies with almost zero overhead



**Sunlight SDS** – Distributed Software Defined Storage for easy scaling and low latency



**Sunlight SDN** – Software Defined Networking enabling creation of ethernet-based virtual private networks



The easy to use **Sunlight Dashboard** and API to configure, monitor and manage your virtual data-center

### Application Description

Hadoop is an open source distributed processing framework that manages data processing and storage for big data applications running in clustered systems. Hadoop provides high performance scalability by parallelizing access to large data sets distributed across many nodes. Fast access to local storage significantly enhances overall system performance.

### Today's Challenges

Individual node storage performance is poor, requiring increased investment in DRAM Caching and larger number of nodes.

The ROI of adding flash storage to existing solutions to solve the performance bottleneck is poor.

Parallelizing by scaling out the application is the only way to improve, which results in higher infrastructure costs for compute and memory caching.

### Add On Value



Upgrade compatibility with the upcoming Sunlight NVMe over Fabrics solution



Seamless migration of VMs from Existing VMWare and Nutanix Installations to Sunlight



Managed Services for Sunlight System as SDDC solution including installation and support



Simple Hybrid Cloud enablement – deploy Sunlight on-Prem or in the AWS Cloud



Backup and Storage integration with third party solutions



Software Defined Network integration makes high performance network configuration and scaling simple and affordable.

### Requirements



Time to completion and node scalability are critical metrics for Hadoop efficiency.



Virtualization is required for administrative flexibility, high availability and resource scaling.



DRAM memory is expensive vs fast storage. Achieve a balance between in-memory caching and reading/writing to the disk.



HCI is preferred to reduce SAN cost, enable easier infrastructure scaling and to decrease storage access latency.



Reduce Licensing Costs  
Boost your performance

## PROVISIONING, EFFICIENCY, FLEXIBILITY

The customer experiences a number of significant benefits from virtualizing Hadoop on SUNLIGHT such as:



### Performance increase relative to cost.

Spend less to achieve a faster completion time for your hadoop workloads. Sunlight offers the fastest virtualised IO performance enabling applications like hadoop to run at least 2 times faster than other cloud solutions.



### Simplified management, Efficient space usage.

Manage your Hadoop from a simplified dashboard. Deploy docker swarms and kubernetes clusters with a single click to make Hadoop orchestration quick and easy.

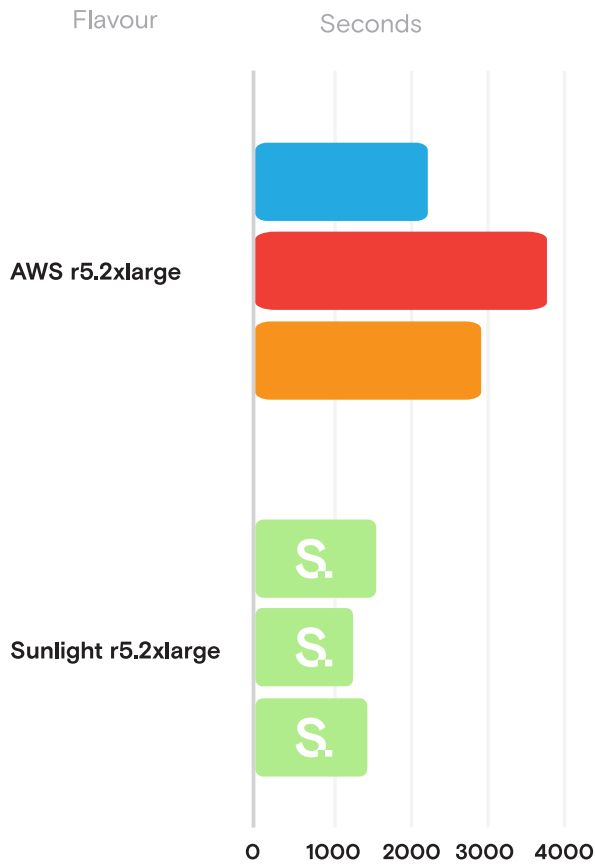


### Increase ROI for fast NVMe flash storage.

Sunlight provides baremetal IO performance for fully virtualised guests. It is the only platform to offer you the flexibility of HCI infrastructure with the performance of bare-metal for flash storage.

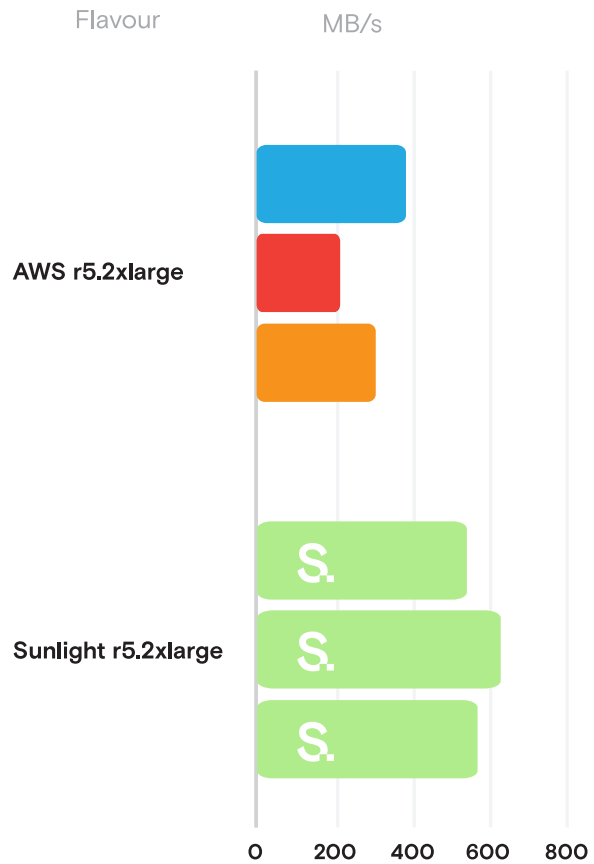
## Hadoop Test Completion Time

■ Write ■ Read ■ Combined R/W (50:50)



## HDFS - Read Write Throughput

■ Write ■ Read ■ Combined R/W (50:50)



### Take the Sunlight Challenge

If you'd like to see how **Sunlight** can solve your performance problems with a better ROI than any other hyperconverged infrastructure platform, get in touch for a free trial. [www.sunlight.io/freetrial](http://www.sunlight.io/freetrial)

