

# keeperSAFE: Executive Summary



## keeperSAFE™

Scalable. Flexible. Secure.

Affordable data storage the way the cloud intended.

keepertechnology



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## Introduction to keeperSAFE™: The Future Proof Data Storage Solution

Enterprise data management strategies are under assault in today's digital explosion. Data volumes are increasing exponentially, and maintaining a competitive edge requires distillation and extraction of information from huge data sets.

Government and commercial entities alike demand cost effective, dynamic and future proof solutions to access, manage, and protect mission critical information. But, current technology cannot keep up.

keeperSAFE presents an entirely innovative solution to today's data storage challenges by utilizing the growing field of Cloud Technologies fused with the advancements made in the Open Source Community. The result is a cost effective, flexible, scalable and remarkably efficient storage solution to address today's enterprise-class data storage and management requirements.



keeperSAFE provides truly on-demand capacity to turn data into information.

## Today's Storage Challenges



Within a 'data-centric' enterprise, core operational capabilities become business critical issues, ejected from the relative comfort zone of daily IT operations. Tying data manipulation and information extraction to organizational success or failure requires critical necessities such as:

- Seamless data protection and integrity
- Elastic and agile data management
- Tight integration with data processing
- Cost-effective capital and operational models

Data moves quickly these days. Downtime is not an option and traditional backups are not practical given current data velocity. The challenges will only grow as we leap ahead. Enterprises are yearning for breakthrough technologies that deliver real value and solve today's issues while scaling into the future.



**keeperSAFE is storage as a service with the scalability of a data center.**



## Data-Storage Industry Response

The open-source revolution was born out of large-company stagnation and inertia, solving broad computer industry problems with a unique ‘crowd-sourced’ approach. Naturally, leading edge solutions for the past several years have focused on the ability to process data into information. Cloud Computing technologies have dominated the mindshare of industry titans, focusing both proprietary and open source technologies on the challenges of data analysis, data correlation, and data mining.

Finally, the open source community has reached critical mass with regard to addressing data management and storage issues. A plethora of projects address point issues very well, but the sheer volume of community effort is overwhelming.

Enter Keeper Technology: harnessing the best of the open source community, filling in the gaps with Keeper software and hardware, and resulting in tightly integrated and supported solutions for today’s and tomorrow’s big data environments.

Public Cloud capabilities have paved the way, offering economies of scale and containing enterprise hardware investment while allowing for pay-as-you-go processing and storage flexibility. Not all corporate data and processing, however, belong in the public cloud. Many require an opaque veil of operations and security. Because of this, major enterprises now realize the need to contain truly proprietary information behind corporate firewalls.

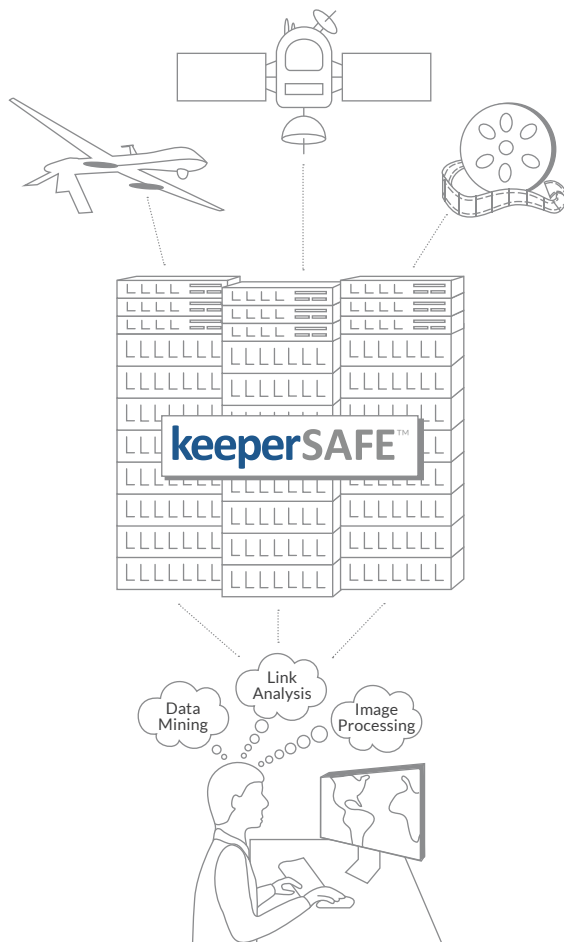


keeperSAFE is high-end, private cloud storage scalable to your organization's changing needs.

## The keeperSAFE Solution

keeperSAFE leverages the advancements made through the Open Source community with innovative approaches to community participation, value-added software, and hardware failure management to enable **scalable, internal, private Cloud infrastructures**. This results in cost effective, big-data computing permitting expansions, contractions and updates with **zero down time**. Keeper Technology fully builds, integrates, tests, and

### keeperSAFE™ Ecosystem



deploys the keeperSAFE appliance to end user specifications. On-site deployment occurs quickly and with minimal disruption to customer operations.

**The result is a customizable and elastic File, Block and Object storage solution.**

keeperSAFE enables dynamic processing environments to closely integrate with the keeperSAFE storage system. This fused architecture allows current server technology functions to operate alongside dynamic virtual machine infrastructures, generic high performance computing, and direct access by analysts and desktop users.

keeperSAFE accelerates an enterprise's "time to answers" by accelerating dynamic big-data workflows.

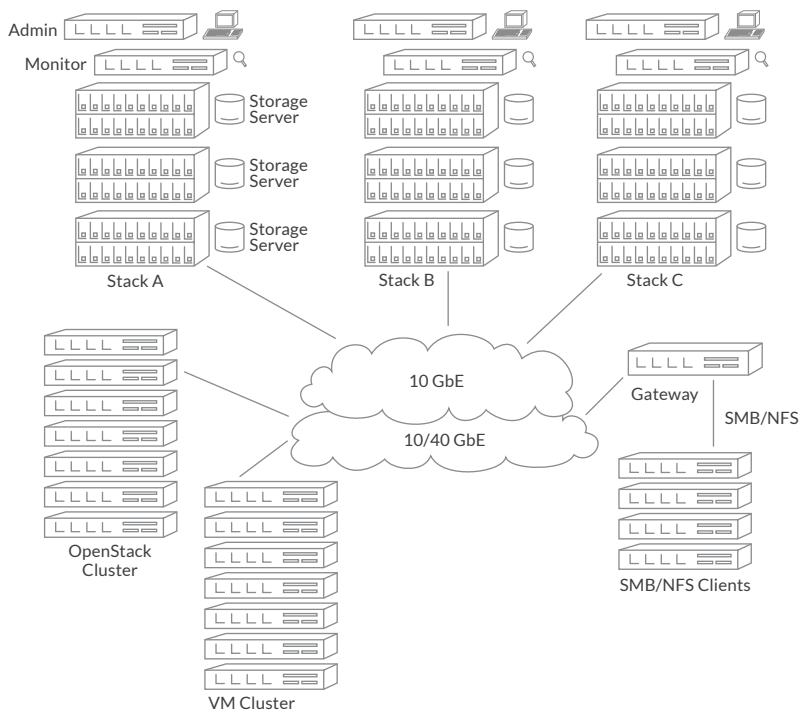
## Benefit to the Analyst

If the soul of an enterprise is in its data, then its heart is in the user. Analysts and their tools—both deriving answers from the continual onslaught of information—are critical to the success of any enterprise. keeperSAFE provides their information backbone, ensuring that data is accessible and dynamically protected.

As new algorithms and approaches are proven, more compute and storage resources are dynamically allocated in real time, all without interruption, providing the quick reaction capability that leads to competitive advantages, informed decisions, and solutions. The heart and soul are satisfied, leading to tangible advantages in efficiency and mission capabilities without breaking the budget.



## keeperSAFE™



## Architecture

Because of its Lego-like architecture, the keeperSAFE solution allows the building of data storage that scales infinitely, and is flexible to run and administer.

### Modular Storage Servers

- Up to 432 TB Raw Storage per 4u
- 10 GbE Back-End Data Distribution
- 10/40 GbE Front-End Data Access

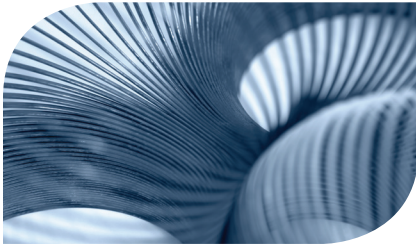
### Data Access

- Native Block, Object, and Shared FS
- NFS-3 & 4, SMB-1, 2, 3
- iSCSI, FC Block

### Available PCIe SSD Cache

## Executive Summary

keeperSAFE is a purpose-built, scalable appliance. It features Keeper Technology developed IP for multifaceted, lifetime data protection. Affordable. Scalable. Flexible. Seamless. KeeperSAFE is the innovative, future-proof solution to today's big-data storage challenges.



### Scalable and Elastic

- On-demand scalability and performance
- Modular components providing dynamic expansion
- Fully functional with today's Block, NAS and Cloud



### Integrated Data Protection and Integrity

- Continuous backup
- Encryption at rest
- Checksums
- Snapshots



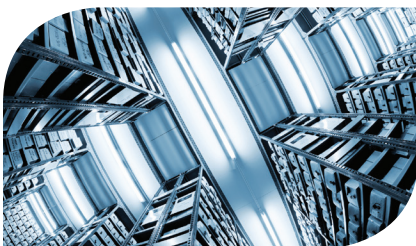
### Cost Effective

- Leverages commodity devices and open software
- Hands-off, periodic maintenance
- Minimizes legacy obsolescence



### Continuous Operations

- Zero downtime
- Extensive fault management
- Self-Healing
- Live technology insertion with automated migration



### keeperCARE™ Service Options

Support available from basic to premium

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