



# Zetta Enterprise Cloud Storage

## On-Demand Storage for Enterprise IT Professionals

Before Zetta, customers had to make a choice — purchase and manage expensive and complex enterprise-class storage arrays or change their entire IT infrastructure to benefit from the advantages of web 2.0 cloud-based storage that lacks an enterprise feature set. With Zetta, customers can get both. Zetta is the first solution that combines an enterprise-class storage solution with an on-demand business model.

### KEY BENEFITS

#### Data Protection

The Zetta architecture delivers data availability levels higher than that offered in even the most advanced (and costly) storage arrays.

#### Rapid Time-to-market

Implement applications and storage expansions in the minimum of time.

#### Flexibility

General purpose storage capacity and performance is immediately available allowing rapid reaction to business and workload changes.

#### Lower Risk

Turn storage management over to the Zetta storage experts reducing your risk and lowering your storage management costs.

#### Reduced Capital Expense

No storage hardware or management to buy with a pay-as-you-grow model.

#### Reduced Facility Expense

No local datacenter space, power or cooling is needed for the data committed to the Zetta Cloud.

### Enterprise Storage Challenges

Global enterprise data storage demand is growing at greater than 60% a year. To store this new data, more than one billion terabytes of new data storage capacity will be provisioned in the next five years alone.

Legacy storage hardware arrays are complex, capital-intensive, inflexible, expensive to scale and increasingly costly to operate. And the technology is obsolete soon after you install it.

New Web 2.0 cloud storage services do not fully solve these problems. They do not integrate with existing enterprise IT architectures, they protect poorly against data loss, and they provide unacceptable performance and availability at Enterprise scale.

### The Zetta Solution: Enterprise Cloud Storage

Zetta Enterprise Cloud Storage is the first cloud storage service to be designed as a solution for an organization's primary data sets. Zetta provides enterprise features in an Internet-based, on-demand model. Zetta is the ideal solution to support the expanding data storage needs of demanding business customers.

With Zetta, enterprises can:

- Quickly and easily add Zetta storage without expensive or risky changes to existing IT environments. To customers, Zetta looks and behaves like a local, network-mounted file server;
- Benefit from the first enterprise storage feature set in the cloud;

- Benefit from the Zetta staff's years of experience managing and protecting very large quantities of sensitive data.
- Let Zetta "future-proof" their storage investment. The Zetta hardware stack is "technologically opportunistic," constantly evolving to leverage advances in storage technologies so customers don't need to.

Regardless of the size of organization or budget, Zetta can vastly improve IT effectiveness with better data protection, more flexibility and a minimum of effort.

### Enterprise Cloud Storage Applications

Zetta brings the benefits of cloud storage to a whole new range of business customers and an expanded range of critical storage use cases.

Zetta is the new, optimal online home for all types of unstructured data, including:

- Active file archives
- Home directories
- Media storage for online distribution

Applications that are good candidates for Enterprise Cloud Storage include:

- Storage consolidation
- Business Continuity and Disaster Recovery
- Data Migration
- E-Discovery and Compliance
- Corporate File Servers
- Media Storage
- Data Archiving

## Zetta Enterprise Cloud Storage Features

Zetta Enterprise Cloud Storage has a rich feature set backed by significant Zetta technology innovations and operational storage management experience.

### Best-in market, volume-based data integrity

- Default RAIN6 N+3 (node level parity x3)
- CRC/SHA1 hashing of all file data at multiple file system layers
- Geo-redundant data collection and storage

### Standard access protocols

- POSIX compatible file system (Seek, Read, Write, Sync, Etc.)
- Virtualized volume mount points with native support for CIFS, NFS, FTP, rsync, REST+

### Enterprise NAS features

- Snapshots and Replication – Asynchronous and Synchronous, Geo-diverse and Parallelized

### Scalable build capability

- Perpetually Hardware/Media agnostic
- Just-in-time footprint provisioning
- Virtually unlimited namespace, footprint

### Ensured Connectivity

- WAN rated via transfer or peak
- MPLS or leased circuits

### Full 128-bit common global address space

### Multi-Tenant, Quality of Service

- Performance management from the network to the spindle
- Throughput, I/O, Integrity, Availability
- SLA-backed – guaranteed performance at peak loads for each customer

Storage Challenge	Zetta Solution
Data availability and data corruption detection	Zetta provides data protection via our RAIN6 technology. RAIN6 takes several key steps further than RAID6 by encoding the data not only across separate disks, but across separate computers, allowing for data protection and continuous availability from more than just failed disks.  Zetta employs consistent use of strong cryptographic hashing via SHA1 at the file level and CRC at the chunk level, and constantly monitors these on writes, reads and at-rest, rooting out potential data corruption and proactively self-repairing without impacting performance
Data security and privacy	Zetta has designed public key infrastructure into its service and file system using government certified, FIPS class key management. All customer data is encrypted at rest at all times and SAS70 Type 2 and Systrust operational certifications will ensure validated best practices in our administration operations.
Guaranteed performance in shared-resource environments	The Zetta cloud file system guarantees the amount of throughput, latency, and I/O each customer receives, regardless of user or storage volume.
Fixed ratios of transport to controllers to media (set at design time)	Zetta constantly and dynamically self-optimizes to ensure that all the capabilities of the storage media are maximized at all times, not bottlenecked by slower controller or data transport interfaces
Native standards-compliance absent from today's cloud storage options	Zetta's service offers POSIX compatible storage accessible via industry standard storage access technologies including CIFS, NFS, SFTP/FTP and soon iSCSI, REST+ and other protocols.

### Data Security and Privacy through government-class security technologies

- Default encryption at rest with secure key management
- Access keys per volume protected by FIPS 140-2 certified hardware security modules

### Next Steps

Zetta Enterprise Cloud Storage service is available now for trial access. Contact Zetta for more information and to begin experiencing the benefits of Enterprise Cloud Storage.

### About Zetta

Zetta, Inc. is a leading provider of enterprise cloud storage solutions. Zetta Inc. was established in 2007 and has raised \$11 million to date. Zetta is backed by Sigma Partners, Foundation Capital and angel investors including Ron Conway, John Zeisler and Amidzad.

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ZECS DS 1 (Apr 2009)