



Enterprise Storage  
On Demand

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# Zetta Enterprise Storage On Demand

October 29, 2009

## **Simplify Enterprise Storage**

Zetta delivers enterprise-grade storage as a service for IT professionals needing primary storage solutions

## On-Premise NAS

Enterprise Feature Set with File System

**Challenges:**

- High Capital Costs
- Limited Capacity
- Poor Utilization Rates
- No Variable Protection
- High Administrative Costs
- Expensive Space and Power
- Complex H/W+S/W Solutions

## Online Object Storage

### On-Demand Business Model

**Challenges:**

- Lack of Data Integrity
- Lack of Enterprise integration
- Lack of Transparency, Control
- Limited Connectivity Path
- Lack of Snapshots, Replication
- Lack of File System semantics
- Lack of POSIX compliance
- Lack True Multi-Tenancy

# Zetta – Enterprise Cloud Storage



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## ***Enterprise Feature Set & File System***

### **Benefits:**

- Data security & privacy
- Enterprise class data integrity
- Native file system semantics
- POSIX Compliance
- Existing protocol integration – no proprietary APIs
- Snapshots & replication
- Administrative transparency
- Performance optimizations



***Providing the only enterprise storage feature set in an on-demand model via a purpose built platform***

## ***On-Demand Business Model***

### **Benefits:**

- Instant-on, scalable capacity
- Reduced mgmt overhead
- Low Capital costs
- Lower Operating Costs
- High utilization rates
- Geo-diverse locality
- Minimal data center footprint

# Use Cases for Zetta Storage



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DB/Exchange

DataMart

Real-time commit requirements



Business Continuity

Data Warehouse

Primary File Server

Compliance

Storage Bursting

HSM/Roll Off

Active Archive

**File system “required”**

**Strong consistency  
“required”**

Offline DR

Backup

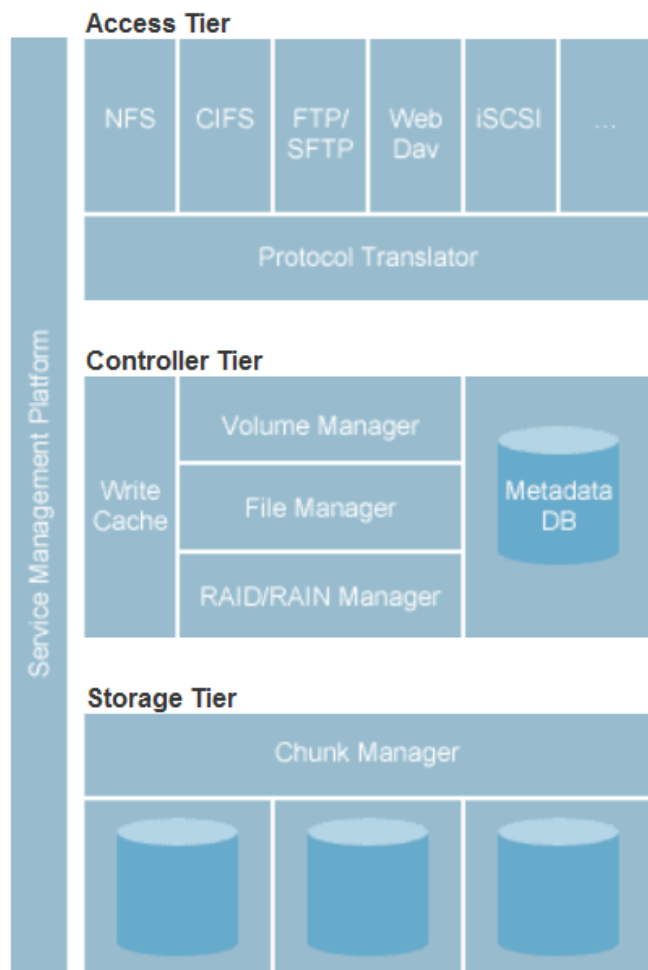
File system brings marginal benefit  
Minimal performance requirements



# Zetta Service Offering



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Native File System, System Architecture

- **Native support for file-based applications**— Zetta is accessed just like a local network file server using standard file system semantics,
- **Plug-and-play integration** – protocol translation enables enterprise compatibility across a broad array of open access protocols
- **Strong data consistency model** – POSIX compatibility ensures read-after-write consistency; plug-and-play with current apps
- **Instant, massive scale** – Uniform namespace prevents collisions when growing or combining volumes
- **Advanced metadata operations** – manage snapshots leveraging our high performance SSD persistence
- **Geo-diverse data protection** – robust replication mechanisms to guarantee data protection

# System Management Portal



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**Zetta Service Management** user@largecorp.com

Dashboard Storage Users

## Storage

Listing of your organizations storage volumes and connection information.

Hierarchy Metrics Events

Data Centers

- Zetta West**  
Location: Silicon Valley, CA  
Volumes
  - Large\_Volume\_1
  - Large\_Volume\_2
- Zetta East**  
Location: Washington, DC  
Volumes
  - Large\_Volume\_1
  - Large\_Volume\_2

**Zetta Service Management**

Dashboard Storage

## Volume Detail

Detailed statistics and settings for volume Lar

Metrics Snapshots

All data | Last 7

MB/s

0.0 1.0 2.0 3.0 4.0 5.0 6.0 7.0

01/07/09 17:00 02/04/09 17:00 03/04/09 17:00 04/01/09 17:00 04/29/09 17:00

**Current statistics**

Time of last sample:	May 11, 2009 1:36:26 PM
Read:	0 Bytes/Sec
Write:	0 Bytes/Sec
Volume size:	2.4 TB

- **Intuitive Interface** – Powerful, yet simple to use and manage, no training needed
- **Easy setup** – rapidly provision, configure, and mount storage volumes through UI
- **Full control framework** – User-controlled snapshot management
- **Transparency** – Automated alerting, reporting and real-time detailed status views
- **Actionable and self-healing** – Full notification framework with auto-corrective actions
- **Delegated administration** – User and responsibility delegation for storage and service management

# Zetta Business Model



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- Integrated Offering
  - All robust features included in base offering
  - Technology protection included
  - Customer service and support included
- One Simple Price
  - Starts @ \$.25 per GB per month for 1 TB
  - Discounts for footprint volume, term
  - Connectivity options for lowest network % of TCO

# Zetta: Why We're Chosen



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- Purpose built for Enterprise Storage use
  - High integrity, High security, Snapshots, Replication
  - POSIX compliance, Native Open/Standard protocols
- Scalable, enterprise class on demand
  - Native file system built from ground up for multi-tenancy
  - SLA for availability AND performance guarantees
- Experienced, World Class Team
  - Leading distributed computing technology innovators
  - Decades worth of petabyte scale enterprise storage administration and operations experience



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See more @ [www.zetta.net](http://www.zetta.net)  
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