

MezeoCloud 4.0

for the Enterprise



Reduce Costs and Improve Productivity with Cloud Storage

BUSINESS BENEFITS

- **Reduce costs** – use your existing storage infrastructure to enable affordable cloud storage for backup/archive, tiered (secondary) storage and file server replacement.
- **Address security needs** – offer a fully encrypted private storage cloud with access controls.
- **Meet compliance requirements** – automate policy-based archive to the cloud, and use geo-location to address data location requirements.
- **Ensure business continuity** – quickly deploy and provision storage to users as needed, and use geo-replication to enable a second site backup and warm disaster recovery.
- **Improve productivity** – offer URL publishing, secure sharing, collaboration and access to files anytime, anywhere using Web, desktop, tablet or smartphone.



MezeoCloud allows anytime, anywhere access to stored files through multiple access clients, including Web, desktop, iPad, BlackBerry and iPhone.

Enterprises are under increased pressure to reduce costs and address the continuous growth of storage without compromising data security, integrity and availability. At the same time, the *Consumerization of IT* effect puts additional pressure on enterprise IT to operate as an internal service provider with SLAs comparable to those of an outside service provider. Users require easy and immediate provisioning of storage as they need it and access to their information how and when they need it (i.e., while travelling or using the device of their choice). For these reasons, many organizations are evaluating a private storage cloud as a solution. A private storage cloud reduces cost and offers flexibility while maintaining security controls within the firewall.

The **MezeoCloud storage platform** is a deployable cloud storage solution ideal for organizations looking to implement private or hybrid clouds. MezeoCloud is a software-only, hardware agnostic solution with REST Web Services API and WebDAV access, end-to-end encryption, access controls and secure sharing with external parties. The MezeoCloud architecture, with a new meta-data storage technology, provides massive scalability and maintains excellent performance. Multiple storage connectors can be used to customize a storage cloud environment based on performance and cost. MezeoCloud provides anytime, anywhere access to files from a PC, web browser, smartphone or iPad.

Combined with the MezeoCloud storage platform, *Mezeo Ready* partner solutions enable an integrated cloud storage solution that can be quickly deployed in any technology environment. Some of the typical use cases for a Mezeo-enabled cloud storage service include:

- **Backup to the cloud:** leverage Mezeo Ready partner solutions to enable low cost, automated backup to a Mezeo based cloud and enable warm DR with geo-replication.
- **Archive to the cloud:** leverage Mezeo Ready partner solutions to move data to lower cost tiered Mezeo based cloud storage.
- **Programmable cloud storage with the Mezeo Interoperability API:** easily integrate existing applications and offer advanced services.
- **Personal cloud storage with branded access clients:** provide individual users with secure file sharing and collaboration via Mezeo Web, desktop and smartphone clients.
- **Server attached cloud storage:** reduce the number of file servers needed by moving data to the cloud.

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MEZEOCLOUD FEATURES

SECURITY

Encryption	<ul style="list-style-type: none"> By default, provides 256-Bit AES encryption of data at rest and 128-bit SSL encryption of data in transfer.
Provisioning & Authentication	<ul style="list-style-type: none"> Allows for storage quotas for a user or groups of users. Leverages the existing authentication systems via integration with PAM (Linux utility: Pluggable Authentication Module). Data management is implemented using the SNIA (Storage Networking Industry Association) CDMI (Cloud Data Management Interface) architecture standard for data management.
Compliance & Governance	<ul style="list-style-type: none"> Supports compliance requirements by providing secure access, both from administrative and user perspectives. Reduces risk by separately maintaining administrative and user authentication.
High Availability & Disaster Recovery	<ul style="list-style-type: none"> Provides High Availability with built-in failover settings so that server failure does not impact the availability or integrity of data. Fault tolerant design distributes meta-data among all nodes in the cluster. Enables data recovery at the account level using a patented recycle container. Enables data recovery at the instance level via geo-location and geo-replication policies.
Account Segmentation	<ul style="list-style-type: none"> Segments each account within the storage volume assigned (no co-mingling of objects).
Access Control	<ul style="list-style-type: none"> Requires credentials for each transaction and enforces access controls at an object level. Allows administrator-defined read, write, update and delete user rights at the folder and object level (for individual users or groups of users) Allows owner-defined read, write, update and delete user rights at the folder and object level (for individual users or groups of users). Allows for an access expiration date at the account level.

REST WEB SERVICES API ADVANCED FEATURES

Presentation Views	<ul style="list-style-type: none"> Exposes the stored objects in a single, flat namespace. Allows for flat object-based view, hierarchical view, tag-based view (or a combination) of data.
Geo-Replication & Geo-Location	<ul style="list-style-type: none"> Secures data in multiple locations for disaster recovery planning scenarios. Stores data in specific locations to satisfy geo-political or privacy concerns and comply with regulations. Improves access latency for centralized workforces by placing data where end users reside.
File Recovery	<ul style="list-style-type: none"> Patented online recycle container allows the recovery of files that have been accidentally deleted.
Interoperability	<ul style="list-style-type: none"> Enables seamless interoperability of applications developed for Amazon S3 and Eucalyptus based storage clouds.
Path Based Access	<ul style="list-style-type: none"> Includes namespace access, which simplifies the use of the existing Mezeo Cloud Storage Platform API for applications that rely on path-based naming as opposed to object storage unique identifiers.

SERVICE ORIENTED ARCHITECTURE

Stateless Architecture	<ul style="list-style-type: none">▪ Provides persistent storage independent from the compute server provisioning, although it can be provisioned in conjunction with compute servers.▪ Allows organizations to quickly provision virtually unlimited amounts of storage.
Scalability	<ul style="list-style-type: none">▪ New architecture offers a “plug and play” approach to scaling.▪ Automatic load redistribution allows additional capacity to be added immediately.▪ Enables Web scale by allowing many clients to interact with many servers against a pool of objects.
Performance	<ul style="list-style-type: none">▪ Allows for optimization of performance through adjustable encryption settings.▪ New fault tolerant design distributes meta-data among all nodes in the cluster.▪ Allows for optimization of performance through configurations based on planned use cases.▪ Offers near line speed transfer rates.
Compatibility	<ul style="list-style-type: none">▪ Allows a service provider to leverage existing Linux mountable storage infrastructure with a shared file system.▪ New storage connectors offer a wide range of connection options, allowing more customization of environment, cost and performance.

DATA ACCESS AND INTEGRATION

Web Access	<ul style="list-style-type: none">▪ White label Web client provides flexible access to Mezeo-based cloud storage from any internet enabled PC.▪ Easy drag and drop tool quickly uploads multiple files.▪ Users can work across Windows, Mac, and Linux OS platforms to store, share and access their digital files from anywhere they have an internet connection.
Windows Native Access	<ul style="list-style-type: none">▪ White label desktop client provides a familiar user interface that appears like a network drive in Windows Explorer.▪ Familiar user interface appears like a network drive in Windows Explorer.▪ Allows dragging and dropping of folders and files, and opening and saving of files to the cloud.▪ Restores or saves files directly from a Windows application.
iPhone, iPad & BlackBerry® Access	<ul style="list-style-type: none">▪ White label clients support access via iPad and iPhone and BlackBerry smartphones.▪ Native viewer application allows users to download files.▪ Mobile client application lock allows a user lockout access to files when they are away from their device without logging out or losing their place.▪ Provides access to entire library of files without worrying about device damage or loss.
REST API Access	<ul style="list-style-type: none">▪ Mezeo CSP API (REST Web Services) enables programmatic access to storage and is language independent.▪ Mezeo Interoperability API enables developers to create a single integration to multiple storage clouds.▪ Stateless nature of REST APIs allows interactions via a network to occur with a minimum of overhead.▪ Enhanced Resources provide access to Contacts, Containers, Contents, Files, Shares, Tags.▪ Developer toolkit provides Mezeo CSP API documentation, samples and additional resources (visit the Mezeo Developer Network site at developer.mezeo.com).

DATA ACCESS AND INTEGRATION

Backup Client	<ul style="list-style-type: none">▪ Offers a Mirrored backup (by folder or file type) or Snapshot backup (by folder, file or application).▪ Provides Restore from Snapshot capability, with configurable settings for where and what to restore.▪ Enables easy set up and configuration using a Wizard tool.▪ Allows user to adjust settings for cache, backup download/upload speed and account quota.▪ Enables an encryption key (optional).
Enable Multiple Cloud Gateways	<ul style="list-style-type: none">▪ Mezeo CSP API enables programmable integration cloud gateway solutions such as backup, archive, integrations with SharePoint®, etc.▪ Mezeo Interoperability API enables access to applications developed for other commonly used storage clouds, such as Amazon S3 and Eucalyptus based storage clouds.
Common Sign On	<ul style="list-style-type: none">▪ Common sign on capability leverages existing sign on credentials to simplify the sign on process.

To learn more about the MezeoCloud storage platform, visit www.mezeo.com or call +1.713.244.0850.

Mezeo Software

Mezeo is the industry's leading provider of a deployable platform for cloud storage. Service-enabled, MezeoCloud is easy to deploy, multi-tenant, highly scalable and secure, with REST Web Services APIs for platform extensibility. With Mezeo, IT Service Providers can rapidly monetize Storage as a Service with a branded offering, and large enterprises can implement a secure, private cloud with clients for BlackBerry®, iPhone, iPad®, desktop and the Web. For more information, visit www.mezeo.com.