

S3 OBJECT STORAGE

Hosted in New Zealand



SOLUTION HIGHLIGHTS

- ▶ High-quality data centre environments.
- ▶ Built on the Object Storage technology from IBM Cleversafe, the leader in both Gartner Critical Capabilities and IDC Marketscape for Object Storage.
- ▶ Design specification is based on 99.9999999% Data Durability.
- ▶ Accessed through industry standard S3 API for wide application compatibility.
- ▶ Geographic distribution of data across 3 Plan B Data centres in New Zealand.
- ▶ Connected to Plan B / ICONZ ISP's via local Internet Peering Exchanges
 - APE, AKL-IX, Mega IX Auckland and WIX
- ▶ Pay as you grow with no upfront investment required.
- ▶ One flat monthly fee fixed for the life of your contract.
- ▶ No hidden or additional costs e.g. ingress or egress charges.
- ▶ Locally hosted in New Zealand for data sovereignty and no international bandwidth costs.

Simple, robust and cost effective cloud object storage hosted in New Zealand

Making sure your ICT infrastructure is hosted in the most optimal environment for your business can be challenging. If you are considering moving some or all your infrastructure offsite, we provide secure and scalable colocation options supported by a high-speed national network.

WHY DO YOU NEED IT?

- ▶ Data is growing faster than ever before and managing it and the costs associated with it can easily get on top of you.
- ▶ According to IDC, only 10% to 20% of data is actively used. That means over 80% of your data is accessed infrequently and could be moved to lower cost archive storage. This frees up production storage, lowers backup costs, backup windows and improves recovery time.
- ▶ With Plan B cloud based object storage you can migrate less frequently accessed data, backups and archives from your production storage, freeing up capacity and lowering costs in one easy step.

FLEXIBLE

- ▶ Purchase what you need, as you need it without upfront investment in storage and infrastructure.
- ▶ Move data whenever you like without paying ingress and egress charges.
- ▶ No speed restrictions, locally peered on all of New Zealand's major ISP peering networks.
- ▶ Supports the S3 API on the frontend for access.

RESILIENT

- ▶ Design specification based on 99.9999999% object durability ensures your data remains safe.
- ▶ By implementing a distributed erasure coding (information dispersal) algorithm, the product enables high availability, with the ability to tolerate a complete site failure across our 3 geographically separated data centres in New Zealand.

SECURE

- ▶ Protect data at rest using optional Plan B-side RC4 128 or AES-256 encryption.
- ▶ Secure data in motion using built-in, carrier-grade TLS/SSL. Generate and manage credentials for each user access and use digital certificates to protect all network connections against rogue attacks.

CERTIFIED 3RD PARTY CLIENTS

- ▶ Compatibility and integration with a vast list of third party applications maximises usability and functionality.

CERTIFIED 3RD PARTY CLIENTS

- ▶ **Panzura** – NAS Gateway – CIFS/NFS
- ▶ **Nasuni** – NAS Gateway – CIFS/NFS
- ▶ **Avere** – NAS Gateway – CIFS/NFS
- ▶ **Ctera** – NAS Gateway - CIFS /NFS, backup, enterprise file sync and share
- ▶ **Qstar** – NAS Gateway – CIFS/NFS for archive
- ▶ **Netapp AltaVault** – NAS Gateway – CIFS/NFS for backup and archive
- ▶ **IBM Spectrum Scale (GPFS)** – High-performance NAS
- ▶ **IBM Spectrum Protect (TSM)** – Backup and Archive
- ▶ **Commvault** – Backup and Archive
- ▶ **Veritas NetBackup** – Backup and Archive
- ▶ **Veritas Enterprise Vault** – Archiving (file, email, Sharepoint)
- ▶ **Cloudberry Explorer Pro** – S3 file browser
- ▶ **IBM Aspera** – File sharing, high speed file transfer
- ▶ **Oracle RMAN** – Backup
- ▶ **S3 API Compatibility** – With an extensive list of 3rd party applications not on the official certified client list

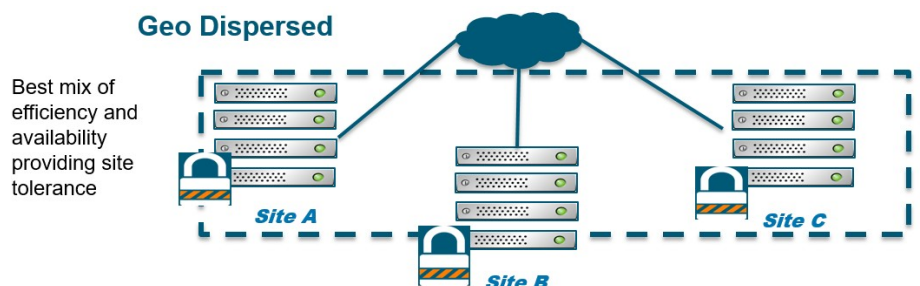
SIMPLE FLAT PRICING

- ▶ One flat fee guaranteed for the life of your contract:
 - ▶ No data transfer, ingress or egress costs
 - ▶ No foreign exchange exposure
- ▶ Locally hosted in New Zealand:
- ▶ No data sovereignty concerns or issues
- ▶ No international bandwidth costs

TECHNICAL SPECIFICATIONS

Specification	Detail
Product Used	IBM Cloud Object Storage (ICOS / Cleversafe)
Bucket Sizes Available	1 TB – 1 PB (greater volumes available on custom request)
Data Protection Method	Erasure Coding
Information Dispersal Algorithm	12/7 – 7 nodes required for data availability
Data Durability	Design specification is based on 99.9999999% Data Durability
Access API	S3 (NFS/CIFS via 3rd party certified gateway)
Hardware Platform	HP Enterprise DL380 Gen 9 Servers
Platform Security	Hardened Appliances (NSA Guidelines applied)
Encryption	Optional per vault using Secureslice Technology which uses RC4 128 / AES 256 Encryption
Geographic Distribution	3 Data Centres – Only 2 required for data availability
Datacentre #1	Auckland – North Shore
Datacentre # 2	Auckland – CBD
Datacentre #3	Wellington – Tawa
Data Access / Ingest Speed	Up to 1 Gb/s via Internet

ARCHITECTURE



PLAN.B

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