



OBJECT STORAGE

Technical Notes



FEATURES

TIMG Object Storage is a S3 compatible storage class for archival data that is typically accessed less frequently and offers a low per Gb storage price and per Gb retrieval fee. This low price point, makes TIMG Object Storage ideal for long-term storage, backups, and as a data store for disaster recovery.



COMPATIBILITY

TIMG Object Storage is compatible with most major backup and storage vendors. For more details see Backup Vendor Compatibility table below.



STORAGE

TIMG Object Storage utilises Enterprise class Ceph Object Storage for the storage of S3 data. Storage design is based on 7200rpm near-line disks designed for long term, mid performance, archival storage of bulk S3 data.



DATA SECURITY

For added peace of mind, and for a small additional fee, your TIMG Object Storage data can automatically be distributed across a minimum of two of our Data Centres within your regional location. All data is kept within the country of origin.



CONNECTIVITY

Either connect with us via a shared Internet connection, limited to 100mbps or Interconnect directly with us at one of our supported Interconnect Data Centres at 1gbps.



FEATURES SUPPORT

TIMG Object Storage provides object storage functionality with an interface that is compatible with a large subset of the Amazon S3 RESTful API. Some limitations apply - see Storage Compatibility table below.



Data Centre Locations

AUSTRALIA

Bunbury WA
Sydney NSW

Direct Interconnect
NextDC Sydney 4 Eden Park Drive Macquarie
Park NSW

NEW ZEALAND

Auckland Hamilton

Direct Interconnect
The Data Centre 220 Queen St Auckland



TIMG S3 Backup Vendor Compatibility



<https://documentation.commvault.com/commvault/v11/article?p=9157.htm>



https://www.veritas.com/support/en_US/article.100039077



https://support.storagecraft.com/s/article/configure-imagemanager?language=en_US#node_32467



https://helpcenter.veeam.com/archive/backup/95u4/vsphere/adding_s3c_object_storage.html



<https://support.hycu.com/hc/en-us/sections/115001018365-Product-documentation>



Data Domain Cloud Tier Architecture Guide PDF Download:
<https://bit.ly/2K7UyZr>



The current Amazon S3 functional features support status

FEATURE	SUPPORTED	REMARK
List Buckets	✓	Different set of canned ACLs
Delete Bucket	✓	
Create Bucket	✓	
Bucket Lifecycle	✓	Removing expired files is supported
Policy [Buckets, Objects]	✓	ACLs & bucket policies are supported
Bucket Website	✓	
Bucket ACLs [Get, Put]	✓	Different set of canned ACLs
Bucket Location	✓	
Bucket Notification	✗	
Bucket Object Versions	✓	
Get Bucket Info [HEAD]	✓	
Bucket Request Payment	✓	
Put Object	✓	
Delete Object	✓	
Get Object	✓	
Object ACLs [Get, Put]	✓	
Get Object Info [HEAD]	✓	
POST Object Copy	✓	
Object Multipart Uploads	✓	
Object Tagging	✓	

* Additional information can be found on the Ceph Documentation website: <http://docs.ceph.com/docs/master/radosgw/s3/>

Unsupported Header Fields:

NAME	TYPE
x-amz-security-token	Request
Server	Response
x-amz-delete-marker	Response
x-amz-id-2	Response
x-amz-version-id	Response



Accessing TIMG Object Storage



TIMG Object Storage allows you to store information easily

To access TIMG Object storage you just require three items.

- 1 The REST API Address
- 2 Access Key ID
- 3 and a Secret Access Key



Access Keys [Access Key ID and Secret Access Key]

Access keys consist of two parts:

- 1 an access key ID [for example, AKIAIOSFODNN7EXAMPLE] and
- 2 a secret access key [for example, wJalrXUtnFEMIK7MDENGbPxRfICYEXAMPLEKEY].

You use access keys to allow your storage to authenticate to TIMG's S3 compatible storage. Like a username and password, you must use both the access key ID and secret access key together to authenticate your requests. Manage your access keys as securely as you do your username and password.

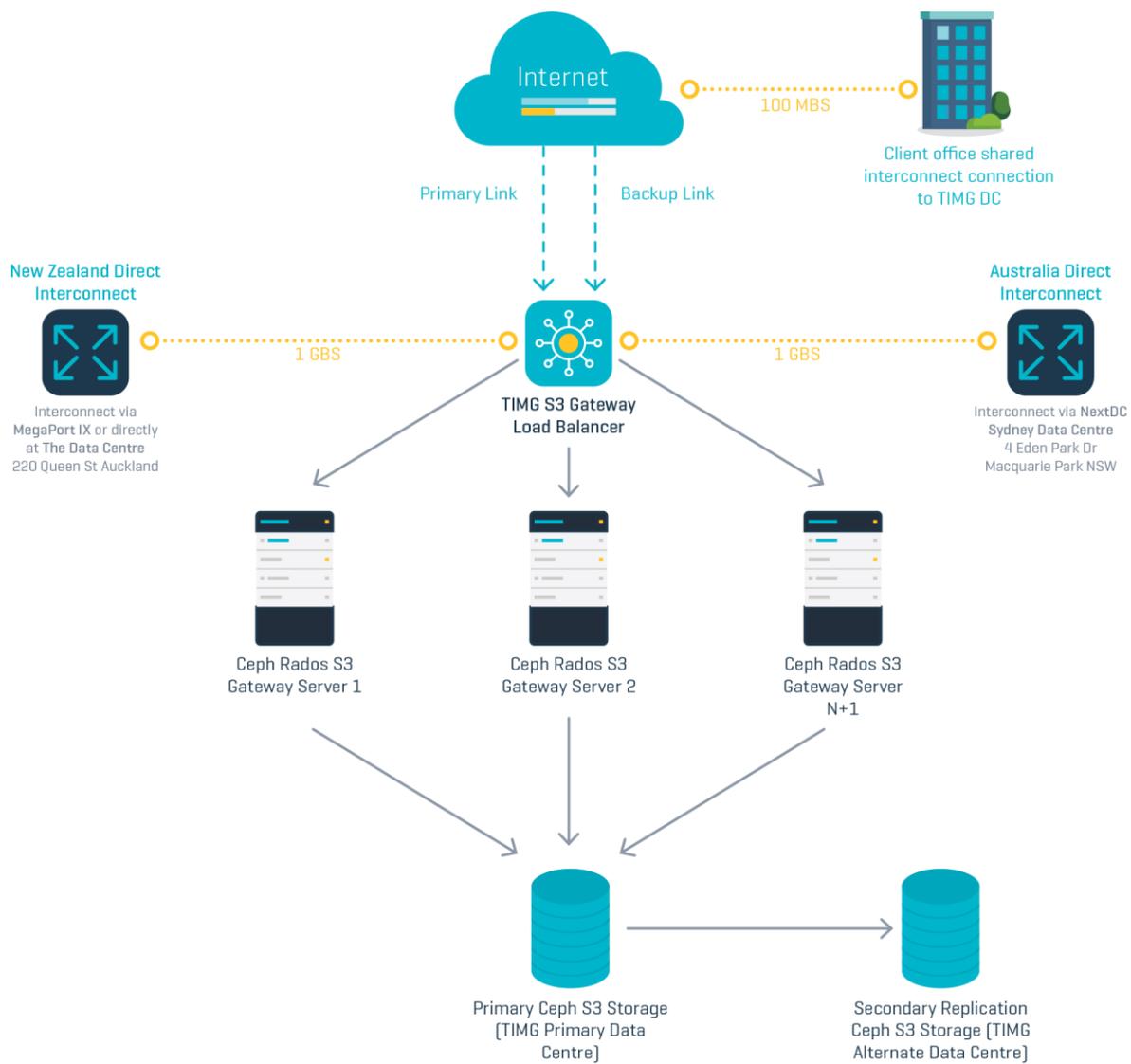
REST API Address

To enable you to access your data, choose the correct region REST API setting below:

YOUR REGION	REST API SETTING
Australia - Sydney	ausyd-s3.backups.net.au
Australia - Bunbury	aubun-s3.backups.net.au
New Zealand - Auckland	nzakl-s3.backups.net.au
New Zealand - Hamilton	nzham-s3.backups.net.au



Infrastructure Block Diagram



Speak to a TIMG consultant today for a review of your current situation.