

# Comparison to Amazon S3

## 1) Storage

GCS:

Standard Storage (GB/Month)	Durable Reduced Availability (DRA) Storage (GB/Month)
\$0.026	\$0.02

So the storage price is  $0.026 * 311\text{TB} * 1024\text{GB/TB} = 8280.064$

Amazon:

The storage fee is \$17336.22

+	Amazon EC2 Service (US-East)	\$	15923.20
+	AWS Support (Business)	\$	1414.52
Free Tier Discount:		\$	-1.50
Total Monthly Payment:		\$	17336.22

As we can see, in the term of storage, GCS is much cheaper than Amazon.

## 2) Transfer in

For transfer in, the two platforms are both free. Thus both are good for transferring in.

## 3) Transfer out

Amazon:

For the transfer out, the cost of S3 is \$39085.15

	Amazon EC2 Service (US-East)	\$	0.00
+	AWS Data Transfer Out	\$	36249.48
+	AWS Support (Business)	\$	2837.35
Free Tier Discount:		\$	-1.68
Total Monthly Payment:		\$	39085.15

GCS:

Monthly Usage	Network (Egress) Worldwide Destinations (excluding China & Australia) (per GB)	Network (Egress) China Destinations (per GB) <sup>1</sup>	Network (Egress) Australia Destinations (per GB)	Network (Ingress)
Data Transfer to Cloud services in the same Region	Free	Free	Free	Free
0-1 TB	\$0.12	\$0.21	\$0.19	
1-10 TB	\$0.11	\$0.18	\$0.18	
10+ TB	\$0.08	\$0.15	\$0.15	

So the price of transferring 622 TB is  $0.08 * 622\text{TB} * 1024\text{GB/TB} = 50954.24$

In term of transferring out, Amazon is cheaper than GCS.

#### Conclusion:

To choose which cloud platform is the most cost effective to run such a distributed storage system should depends on different cases, for transfer data in, both GCS and Amazon s3 are free. For store the data, GCS will be cheaper. For retrieve the data, Amazon s3 will be cheaper.