

Questions

Which kinds of storage are available?

- Object / Blob Storage
- File Storage
- Block Storage

Block - Different tier-classes? SATA, SSD, SAS

Which objects storage-engines are offered?

File - Accessing file storage via (cluster) file system.

Storage capacity limits

Duration of provisioning?

Throughput IOPS (only Block- and File-Storage)

Costs per month

- total price for 50 GB Disk which is mounted to the VM

AWS**Azure**

yes (S3 / Glacier)

yes (EFS)

yes (EBS)

yes (Azure Blob Storage)

yes (Azure Disk Storage)

yes (Azure Files)

yes

yes

Amazon S3

Azure Blob Storage

- EFS

- GlusterFS

- BeeGFS

- Luster

Overall size: Unlimited

Overall size: 500 TB per Storage Account

5 TB per S3 object

200 Storage Accounts per Subscriptions

18 sec

47 sec

- Random read: bw = 24.52 MB/s, iops = 3065

- Random read: bw = 46.33 MB/s, iops = 5791

- Random write: bw = 128.83 MB/s, iops = 2013

- Random write: bw = 32.00 MB/s, iops = 4500

- Random Read and write:

- Random read and write:

- read : bw = 44.20 MB/s, iops = 2762

- read: bw = 105.19 MB/s, iops = 6574;

- write: bw = 5.03 MB/s, iops = 314

- write: bw = 11.99 MB/s, iops = 749 ;

- Sequential read: bw = 24.55 MB/s, iops = 3068

- Sequential read: bw = 34.24 MB/s, iops = 4279

- Sequential write: bw = 99.07 MB/s, iops = 3095

- Sequential write: bw = 16.80 MB/s, iops = 524

€ 5.34 / \$ 5.99

€ 7.65 / \$ 8.58

Google Cloud Platform

yes (Google Cloud Storage)

yes (Google Drive / Persistent Disk)

yes (Google Persistent Disk)

yes

Buckets (like S3)

- Google Cloud Storage FUSE

- Beta: Google Cloud Filestore

Overall size: Unlimited

5 TB per individual object

- Random read: bw = 13.00 MB/s, iops = 1624

- Random write: bw = 32.75 MB/s, iops = 511

- Random read and write:

- read: bw = 25.12 MB/s, iops = 1570

- write: bw = 2.86 MB/s, iops = 178

- Sequential read: bw = 13.00 MB/s, iops = 1624

- Sequential write: bw = 28.07 MB/s, iops = 877

€ 1.14 / \$ 1.28

IBM Cloud

yes (IBM Cloud Object Storage)

yes (IBM Cloud file storage)

yes (IBM Cloud block storage)

yes

- S3

- Swift

- NFS

Overall size: Unlimited

25 GB per month of object storage(Unlimited for standard plan)

25 sec

- Random Read: bw = 92.88 MB/s, iops = 11610

- Random Write: bw = 24.30 MB/s, iops = 3796

- Random Read and write:

- read: bw = 78.24 MB/s, iops = 4889

- write: bw = 8.91 MB/s, iops = 557

Sequential Read: bw = 79.44 MB/s, iops = 9929

Sequential Write: bw = 85.32 MB/s, iops = 2666

€ 8.82 / \$ 9.89

OTC

yes (Object Storage Service)

yes (Scalable File Service)

yes (Elastic Volume Service)

yes

- S3

- Swift

- NFS

50 TB object storage

23 sec

- Random Read: bw = 8.24 MB/s, iops = 1005

- Random Write: bw = 66.10 MB/s, iops = 1009

- Random Read and write:

- read: bw = 14.80 MB/s, iops = 903

- write: bw = 1.65 MB/s, iops = 102

Sequential Read: bw = 10.60 MB/s, iops = 1322

Sequential Write: bw = 59.60 MB/s, iops = 1818

€ 2.30 / \$ 2.58