

Block Storage

The block storage, also called volume, offered by 1&1 IONOS Cloud GmbH allows the customer to make use of a dual-redundant storage system.

Each block storage created by the customer is stored on two storage servers. For additional data security every storage server is based either on a physical RAID-10/RAID-1E system (HDD), or a software based RAID-50 system (SSD).

Access to the volumes requested by the customer is achieved via the internal InfiniBand network.

Hard drive	Hard Disk Drive (HDD)
Use	Shared
Minimum and maximum size	1 GB – 2 TB per volume (max. 8 TB per volume)
Read / write speed, sequential	200 MB/s at 1 MB block size
Read / write speed, full random	Sustained: 1,000 IOPS at 4kB block size Burstable: 2,500 IOPS at 4kB block size

Hard drive	Solid State Drive (SSD)
Use	Shared
Minimum and maximum size	100 GB – 1 TB per volume (max. 1 SSD per VM)
Max. read / write speed, sequential	500 MB/s per volume at 1 MB block size
Max. read speed, full random	37,500 IOPS at 4 kB block size
Max. write speed, full random	25,000 IOPS at 4 kB block size
Read / write speed, sequential	1 MB/s per GB at 1 MB block size
Read speed, full random	75 IOPS per GB at 4 kB block size
Write speed, full random	50 IOPS per GB at 4 kB block size