

White paper DiskbayOnline



DiskbayOnline: Your disk in the datacenter

DiskbayOnline is basically hard disk colocation. We place your disk in one of our servers in the datacenter. You can access the disk through the VPS provided with this service. The guest OS of that VPS is FreeNAS or Debian and you are free to use the VPS and your disk in any way you like. Placing multiple disks is also possible. E.g. a RAID set can be built for redundancy.



Why DiskbayOnline?

Prices of harddisks are low. But when you ask an hosting provider to store your data, the price per Gbyte is much higher than you would expect in comparison with the pricing of disks. The reason is that the hosting provider stores the data at least twice and will make backups to a redundant server. Four times the storage is used, even though you probably only need one copy of your data. The data is stored on their servers. So you have to assume that it is safe.

That is why with DiskbayOnline you buy the disk and we only make sure you can use it.

Typical usage

Due to the nature of the service it is used to store large amounts of data in an external location on your own disk. Especially when it is important that you know where your data is and who owns the data. Meeting security compliance requirements is easy with DiskbayOnline.

Using DiskbayOnline

There are many uses for DiskbayOnline. You may use all functionality that FreeNAS or Debian offer. If you can configure it, you may use it.

Scalable

You may add extra disks when needed. Migration of existing disks may be needed when all disks must be accessible from a single VPS

Accounting

Storage	Fixed price per disk. Regardless the size of the disk.
Traffic to DiskbayOnline	Unlimited
Traffic from DiskbayOnline	Counted if more than 100 Gbytes

Specifications

VPS specs	1 core, 1 Gbyte ram, 10 Gbyte OS disk
Network connection	100 Mbit/s. Faster upon request.
Harddisk type	Westerd Digital RE
Harddisk specifications and sizes	See: https://www.wdc.com/content/dam/wdc/website/downloadable_assets/nld/spec_data_sheet/2879-800074.pdf

Environment

Where, how, by whom. The disks are colocated in servers that are housed in datacenters that provide redundant power supply and cooling. It is an environment that results in a high uptime.

Ownership

When buying the disk, we register the disk on your name. You receive proof of ownership. There will never be a doubt who owns the data or the disk.

IPv6 support

DiskbayOnline supports both IPv4 and IPv6 addressing. With IPv6 protocol support, you can meet IPv6 compliance requirements, integrate with existing IPv6-based on-premises applications, and remove the need for expensive networking equipment to handle the address translation.

Monitoring

The DiskbayOnline service is monitored 24x7. Our engineers are automatically alerted in case of an incident.



Location

The availability of a solution depends on the location and availability of power, cooling, infrastructure and physical security. Our datacenters are in Ede and Apeldoorn, The Netherlands.

The datacenter in Ede

Construction	Data center
Height service area	Minimal 6 meters above NAP
Fire detection	Two independent, certified very early warning systems Automatic notification to fire brigade
Fire extinguishing	Certified Argonite (Ar+N ²) installation
Cooling installation	N+1 computairs N+1 cooling machines
Cooling power output	1500 W/m ²
Temperature	25 °C (+/- 2 °C) in cold paths
Lightning protection	Certified according to NEN norms
Electrical installation	Two incoming feeds into rack Separate UPS for every feed
Emergency power supply	N+1 diesel aggregates
Diesel supply	48 hours
Power per rack	Up to 96 A
Information security	ISO/IEC 27001 and NEN 7510 certified
Physical security	VEC certified safety class 4*
Alarm	Redundant connection to control center
Surveillance	Two independent surveillance services
Access control	Two factor authentication Biometric iris scanners RFID access passes
Internet Access	Router 1: 1 Gbit/s transit Joint Transit 1 Gbit/s peering NL-ix Router 2: 1 Gbit/s transit BIT
Support	24x7

The datacenter Apeldoorn

Construction	Data center
Height service area	Minimal 5 meters above NAP
Fire detection	Two independent, certified very early warning systems Automatic notification to fire brigade
Fire extinguishing	Inergen installation
Cooling installation	N+1 computairs and Drycoolers
Cooling power output	3300 W/m ²
Temperature	23 °C Conform Ashrea-2008 norms in cold paths
Lightning protection	Certified according to NEN norms
Electrical installation	Two incoming feeds into rack Separate UPS for every feed
Emergency power supply	N+1 diesel aggregates
Diesel supply	24 hours
Power per rack	Average 33 A
Information security	ISO/IEC 27001 certified
Security	Camera surveillance with 64 camera's. All entries are monitored.
Surveillance	During office hours: Staff Outside office hours: Surveillance service
Access control	Two factor authentication Biometric and registration
Internet Access	1 Gbit/s to the Tuxis network in Ede with: - 1gbit/s transit Joint Transit - 1gbit/s peering NL-ix: - 1gbit/s transit BIT
Support	24x7

Tuxis info

DiskbayOnline is a product of Tuxis Internet Engineering V.O.F.

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