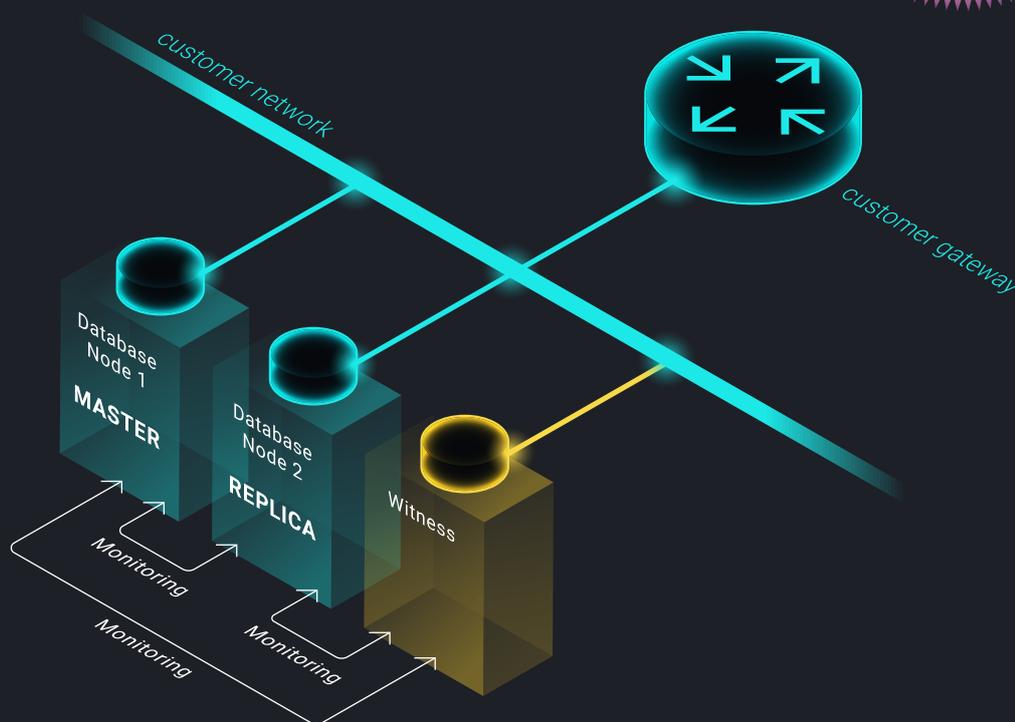


# DBaaS - Database as a Service.

Cloud-based database service for storing and managing structured data.



Want to stop worrying about maintaining your database instances? Then DBaaS is the right solution for you. Our service is based on PostgreSQL and offers flexible and scalable database functions that can be easily organized via self-service management. With DBaaS, we offer an enhanced service for our private cloud customers.

## Maintenance-free.

DBaaS is completely maintenance-free for you. Cyberlink operates the necessary infrastructure and creates daily backups. Monitoring the correct functioning of the database is part of the basic service package, as is the restoration of defective database nodes and the regular installation of software updates. Thanks to the integrated point-in-time recovery functionality, a past state can be restored if necessary.

## Swiss Made.

Data storage and operation in Switzerland are a matter of course for us. DBaaS is available in our Swiss Tier 3 data centers, which also house our private cloud. The database nodes are always operated at the same location as the relevant virtual data center (VDC). Our customer service team is available 24/7. We speak Swiss German, German, and English.

### Guaranteed availability.

DBaaS is always operated with a service level agreement. For database instances consisting of two or more nodes, Cyberlink guarantees monthly availability of 99.95%, and for individual nodes, 99.90%.

### Backup & Restore.

In addition to daily backups, all write transactions in the database are copied to an external data storage device. While the database itself uses our high-performance all-flash storage system, backups and transaction copies are stored on a separate, physically isolated data storage device. Cyberlink S3 Storage is used for this purpose, which in turn is designed to be redundant. In the event of a defective database node, Cyberlink recreates it and restores the last backed-up data set.

### Point-in-Time-Recovery.

Instead of the last backed-up data set, a point in time prior to an undesirable event can be restored using transaction data via "Point-in-Time Recovery" (PITR).

### Monitoring.

While Cyberlink uses its own monitoring systems for surveillance, you get deep insight into your databases via a dedicated tool. Information on node status, performance indicators, query runtime, and more is easily accessible via a web browser.

### Quorum thanks to Witness.

In a database cluster (two or more nodes), one node automatically becomes the "master." This node is the only one with write permissions. The nodes in a cluster replicate the data among themselves and offer high availability. If an error occurs on the master, a replica automatically takes over its role. However, an even number of database nodes can lead to problems. Cyberlink solves this with an additional micro node ("witness"). This participates in the monitoring process without participating in the database cluster. Thanks to this "witness," a new 'master' can be determined via the "quorum" – a majority decision – in the event of a communication interruption.

## Key Facts.

- > Maintenance-free PostgreSQL database (11 & 12)
- > Data storage & operation in Switzerland
- > Guaranteed availability of up to 99.95%
- > Maximum security and availability
- > Integrated backup & monitoring
- > Point-in-time recovery
- > Flexible sizing tailored to your needs
- > Usage-based billing

### Free choice.

DBaaS is tailored precisely to your needs and does not impose any rigid configurations. Determine the number of database nodes (between 1 and 8) and choose the number of vCPUs (2 to 16) and the size of the RAM (from 2 to 128 GB) with equal flexibility. Data is stored on a dedicated virtual hard disk. You determine the size of this hard disk before installing the nodes. However, it can also be enlarged later if necessary.

### RPO & RTO.

The Recovery Point Objective (RPO) describes the maximum time between the last data backup and a system failure that results in data recovery. The RPO for DBaaS is a maximum of 5 minutes.

The Recovery Time Objective (RTO) describes the time required to restore the data. This depends on various factors, such as the amount of data that needs to be restored. Since this time is variable, it cannot be guaranteed. However, reco-

## Technical requirements.

Database-as-a-Service (DBaaS) is available to any company that already purchases a private cloud service from Cyberlink. If no VPC instance exists yet, it is technically necessary to order one as well.

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