IBM Db2 Hosted

The power of IBM Db2 software combined with the agility of cloud deployment—all under your control

Highlights

- Get the full-featured capabilities of IBM® Db2® Workgroup or IBM Db2 Advanced Enterprise Server

- Support both transactional and analytics workloads

- Migrate applications more easily thanks to compatibility with IBM Db2 software and Oracle Database SQL

- Retain control with full database administrator (DBA) access of IBM hosted instance

- Help protect your data with this advanced security and single-tenant cloud platform

- Deploy IBM Db2 Hosted rapidly to over 30 IBM Cloud data centers around the world

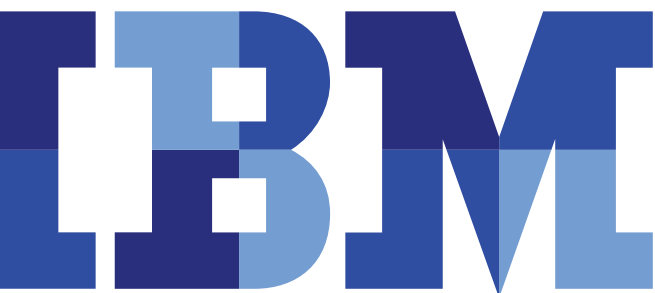- Budget predictably with monthly subscription-based licensing

IBM Db2 Hosted: Your fast, economical choice

The IBM Db2 solution is a multi-workload relational database system that can improve business agility and reduce costs by helping you better manage your company's core asset: data. And now, this system is available on demand as a cloud service, which provides the following advantages:

- **Rapid provisioning for nearly instant productivity**
  Avoid the usual lengthy wait for procurement and data center setup.
- **Monthly subscription-based licensing**
  Pay for what you use and avoid upfront capital database management system (DBMS) expenditures.
- **Simplified administration**
  You have full administrative control. Automatic provisioning, configuration and facilitated high availability disaster recovery (HADR) setup help lighten your workload.
- **Deployment location flexibility**
  Help meet your data locality requirements and push data closer to where users need it by deploying to dozens of IBM Cloud data centers around the world.

IBM Db2 Hosted use cases

The IBM Db2 solution offers the same functionality as its on-premises equivalent, so it's equally suitable for transaction processing and analytics data workloads. However, rapid self-service cloud deployment and pay-as-you-go licensing make it especially useful in the following scenarios:

- **Cloud strategy adherence**
  IBM Db2 Hosted helps you comply with mandates to deploy new projects to the cloud to reduce capital IT expenditures and conserve on-premises data center resources.
- **Short-term database projects**
  IBM Db2 Hosted is ideal for proofs of concept and other short-term development or analytics projects—you only pay for the time you use it.
- **Disaster recovery**
  Your on-premises Db2 instances can replicate data to IBM Db2 Hosted, which can serve as a fail-safe in the event of a primary data center disaster.
- **Geographic reach and regulatory compliance**
  Deploy IBM Db2 Hosted to IBM Cloud data centers around the world to help meet requirements, regulatory or otherwise, for hosting data in specific countries or regions.

Powered by the security-rich, high-performance IBM Cloud

The IBM Db2 solution includes all Db2 security features, including data encryption. In addition, your DBAs have full control over database access and operation. IBM Db2 Hosted is available on dedicated, single-tenant IBM Cloud servers. This feature helps ensure performance will be better isolated and less affected by noisy neighbors.

IBM Db2 Hosted features and configurations

Fixed monthly fee with no hidden charges
Your monthly fee is based only on the price of the configuration you choose. There are no extra costs for services such as data transfer.

Easier migration thanks to Db2 and Oracle compatibility
IBM Db2 Hosted SQL is compatible with on-premises versions of IBM Db2 software and with the Oracle Database. This feature helps make it easier to migrate application code to and from IBM Db2 Hosted.

IBM hosting services and high availability
Although IBM Db2 Hosted is a hosted service, it gives you full DBA control over the system.

IBM specialists help make operations easier for you by:

- Provisioning your IBM Db2 Hosted system so it's preconfigured and ready to use
- Keeping the underlying hardware and operating system running and up to date
- Facilitating database backups and high-availability setup

Smooth integration
IBM Db2 Hosted can be accessed in the same way as on-premises versions of IBM Db2 software. In other words, the database works with the same applications; security; extract, transform, load (ETL); messaging; monitoring and systems management tools you use today.

Db2 Hosted Standard compared to Advanced

Db2 Hosted Standard is a hosted version of the Db2 Workgroup Server Edition, while the "Advanced" version is built on the Db2 Advanced Enterprise Server Edition.

Products and components	Db2 Hosted Standard	Db2 Hosted Advanced	Products and components	Db2 Hosted Standard	Db2 Hosted Advanced
Db2 capabilities and engine functionality			**Db2 capabilities and engine functionality**		
JSON Db2 NoSQL	✓	✓	Compression		✓
Table partitioning	✓	✓	Multi-temperature storage		✓
IBM Mobile Database Sync	✓	✓	Materialized query tables		✓
IBM Mobile Database Support	✓	✓	Multi-dimensional clustering		✓
IBM pureXML® Storage	✓	✓	Query parallelism		✓
Time travel query	✓	✓	Connection concentrator		✓
Compression backup	✓	✓	SolidDB and solidDB UC		✓
Row and column access control	✓	✓	Plan lockdown		✓
Label-based access control	✓	✓	Scan sharing		✓
SQL replication	✓	✓	Db2 Workload Management (WLM)		✓
IBM WebSphere® MQ	✓	✓	Continuous data ingest		✓
High-availability disaster recovery	✓	✓	MO replication /CDC		✓
IBM Tivoli® System Automation	✓	✓	Db2 Connect		✓
Online reorg	✓	✓	**Deployment models available**		
Advanced copy services	✓	✓	BLU		✓
Native encryption	✓	✓	BLU shadow		✓
Federation capabilities	✓	✓	Data partitioning feature		✓

Small, medium, large and extra-large cloud instance types:

Your choice of IBM Db2 Hosted engines can be run on the following cloud instance types to handle different-sized workloads:

	Small	Medium	Large	Extra-large
Node type	Virtual private	Virtual private	Virtual private	Bare metal private
Cores	2 x 2.0 GHz	4 x 2.0 GHz	8 x 2.0 GHz	12 x 2.4 GHz
Memory	8 GB	16 GB	32 GB	128 GB
Storage	I00 GB, 500 GB SAN 100 GB @ 500 IOPS	100 GB and 1 TB SAN 100 GB @ 1,200 IOPS	100 GB and 2 TB SAN 100 GB @ 1,600 IOPS	2 x 800 GB SSD @ RAID 1 (~800 GB) or 7 x 800 GB SSD @ RAID 6 (~4 TB)
Network	1 Gbps public and private uplinks	1 Gbps public and private uplinks	1 Gbps public and private uplinks	10 Gbps redundant public and private uplinks
OS	RHEL 7.0	RHEL 7.0	RHEL 7.0	RHEL 7.0

* Flex plan allows customers to scale storage and compute resources from 1 virtual processor core (VPC), 4 GB RAM, and 100 GB storage up to 32 VPCs, 128 GB RAM, and 2 TB storage based on individual workload needs.

Custom clusters available on request

If you have additional needs to support worldwide application deployments, let IBM know. IBM specialists can create custom IBM Db2 Hosted clusters to support your business needs.

Getting started with IBM Db2 Hosted

With IBM Db2 Hosted, there's no hardware or software to purchase and install. Simply sign up for an IBM Cloud account at **ibm.com**/cloud and request an IBM Db2 Hosted instance. If you need assistance learning more about IBM Db2 Hosted or determining whether it's a good fit for your application requirements, contact IBM at db2cloud@us.ibm.com or visit **ibm.com**/cloud/db2-hosted IBM is available to answer your questions or set up a discussion with IBM technical specialists.