

IBM Db2 AI Editions

The Autonomous
Database Era has
Begun







2:00pm

The database running your business is down



Your customers are **flooding** you with support tickets



Database admins are **scrambling** to figure out what's happening



You're **losing** \$83k for every minute your app is down



You're facing **hours** of **downtime** that you can't afford



Your **reputation** as a trusted partner is quickly diminishing



You're running a serious risk of headlining **CNBC** tonight

The Daily Reality for DBAs: Too many tasks, too little time



Troubleshooting is complex

62%* say it is the #1 time consuming activity.

Finding the right documentation, commands, and fixes takes too long.



Query tuning requires deep expertise

Performance optimization is an **ongoing activity**.

Indexing, query tuning, and workload balancing requires constant attention.



Tools are fragmented and manual

68%* use 3-4 management tools daily.

Disconnected tools make it harder to get a unified view of database health.



DBAs are reactive instead of proactive

\$14k/min is the average cost of unplanned downtime.

Reactive intervention is not just inconvenient, it's expensive.



Repetitive tasks consume bandwidth

Only **36%*** have sophisticated task automation.

Most teams rely on local scripts, manual handoffs, or outdated runbooks.

* Based on survey of 30+ expert Db2 database administrators

What if...



Troubleshooting is complex



DBAs had **direct access to the right answers** - no more hours lost in documentation?



Query tuning requires deep expertise



AI made query tuning **faster, smarter, and less effort-intensive?**



Tools are fragmented and manual



DBAs had a **unified platform** instead of juggling disconnected scripts and dashboards?



DBAs are reactive instead of proactive



DBAs had a tool that **monitors your database 24/7** and flags issues before they impact performance?



Repetitive tasks consume bandwidth



Repetitive tasks like backups and patching **ran with minimal intervention**, freeing up time?



What if you had your
very own **Genius**
working for you?

It doesn't need to eat

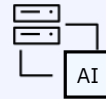
It doesn't need to sleep

And it's ensuring your databases are up
and running **24x7x365**





Introducing the **Db2 autonomous database**, powered by the all new Db2 Genius Hub



Autonomous database that proactively monitors, detects, and reacts to issues, acting autonomously when appropriate, and engages human judgement only when necessary

95%

→ Reduction in
database
management costs
with agentic
maintenance

95%

→ Reduction in
manual
intervention
with agentic
healing

90%

→ Reduction in time
to problem
resolution
with agentic
response

Genius runs on top of a network of AI agents that seamlessly **work together** to perform **activities** that power an **autonomous experience** for Db2 databases



Agentic Maintenance

95% reduction
in management costs

Automate critical tasks, such as tuning & patching. Each action is observable and reversible, ensuring operational autonomy without sacrificing control.

Activities

- **Engine Installation & Updates** **PREVIEW**
Deploy new or upgrade existing instances of Db2
- **Database Performance Optimization**
Stats refresh & reorgs to keep indexes and tables optimized
- **Health Check**
Proactive scans for common issues
- **Backups & Recovery Preparation** **COMING**
Automated, verified backups with audit trails
- **Integrity Checks & Cleanup** **COMING**
Validate constraints and maintain hygiene



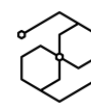
Agentic Healing

95% reduction
in manual intervention

Continuously monitor usage patterns, detecting anomalies early. This reduces the likelihood of SEV-1 incidents and ensures planned work takes priority over firefighting.

Activities

- **Anomaly Detection & Resolution**
Identify unusual spikes in CPU, memory, storage, or queries
- **Locking Issue Resolution**
Detect blocking chains, deadlocks, and timeouts
- **Query Spilling Resolution**
Highlight when memory overflows to disk, explain impact, and recommend fixes
- **Workload Queueing Resolution**
Detect queue buildup, surface contributing workloads, and propose rebalancing actions



Agentic Response

90% reduction
in time to resolution

When issues arise, explain what changed, why it matters, and how to address it — saving hours of root-cause analysis. Every recommendation is auditable, helping build trust.

Activities

- **Performance Problem Determination**
Analyze performance issues across multiple diagnostic paths
- **What's Changed Analysis for Incident Management**
Identify schema, index, or config changes tied to incidents
- **Conversational Telemetry**
Natural language access to monitoring data and trends
- **Deep Research with Multi-Step Reasoning**
Answers from documentation, support run books & more
- **Incident Summary Report**
Generate root-cause reports and draft support tickets
- **Log Analysis for Advanced Problem Determination**
Track Db2 logs to quickly identify errors and issues

IBM Db2 Genius Hub

5QL

Hello, Admin

Key insights

core_banking_pr...

core_banking_...

retail_deposits_ua...

2 more →

Last updated: 2 seconds ago

AI

667

Queries run

86%

Average CPU usage

17%

Average memory usage

40%

Peak CPU usage

20 Feb 2026 11AM

Select database tag

24 database tags

Select a database tag to view an overview of the associated databases.

Manage database tags

All databases 5 20

Db2 Warehouse 14

Db2 Database 2 5

pureScale 21 clusters

+

>

All databases

50 databases

Search databases

Filter

Columns

New connection +

Name	Tags	Alerts	CPU	Memory	Storage	Respon...
core_banking_pr...	prod us-west +1	1 2	30%	68%	74%	96 ms
core_banking_dr...	dr us-east +2	3 1	42%	73%	79%	47 ms
retail_deposits_...	uat retail +1	1 1	45%	77%	68%	51 ms
loan_servicing_qa	qa nonprod +5	4	33%	70%	61%	78 ms
payments_hub_...	sepa regulated +1	1	51%	65%	55%	45 ms

5

1–5 of 50 items

1 of 10 pages

◀

▶

Notifications

Status: All notifications

Sort by: Newest

Rows read

core_banking_prd_us_east 01

-01/23/26, 2:18:08 PM

Total activity time

core_banking_prd_us_east - January 23, 2026 2:15:05 PM

Hi I'm your Genius.

How can I help you today?

What's new

Db2 Genius is learning new skills!

Learn more →

What can Db2 Genius do?

Retrieve schemas

How is my database performing?

Get query throughput

Analyze wait times for the past week

core_banking_...

Research Db2 topics

Generate SQL

Deep research

Add connection

What can the
Genius do for
you?

Just ask...

You 11:51 PM

What else can you do?

11:51 PM

I'm your Db2 assistant, here to help with a wide range of database tasks:

Performance Troubleshooting & Analysis
Diagnose and resolve performance issues including slow queries, bottlenecks, lock contention, memory pressure, transaction log problems (log full, log pressure, blocking transactions), spilling, and queuing. I identify root causes and provide actionable recommendations.

Database State & Telemetry Retrieval
Retrieve current and historical database information including CPU usage, active queries, queued requests, application status, tablespace utilization, health checks, resilience status, configuration values, and system metrics.

Disk Space Management & Optimization
Analyze storage usage, identify space reclamation opportunities, recommend reorganization (reorg) candidates for tables and indexes, troubleshoot tablespace growth, and provide optimization strategies.

Db2 Documentation & Knowledge
Explain Db2 concepts, features, configuration parameters, SQL syntax, error codes, best practices, and internal behavior. Provide SQL queries and commands for you to use based on official documentation.

IBM Db2 Support Ticket Preparation
Help you prepare comprehensive support tickets for IBM Db2 support by gathering problem details, environment information, troubleshooting history, and recommending relevant diagnostics to collect.

Connection Information
You're currently connected to the **BLUDB** database as user **db2inst1** using the **PROD_ANALYTICS_SVL** profile.

What would you like help with?

PROD_ANALYTICS_SVL

Type something...

SQL Generate SQL

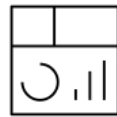
Deep Research

Our competitive advantage



AI-embedded institutional knowledge

Encoded the institutional knowledge of Db2 experts across IBM offering highly accurate responses from AI



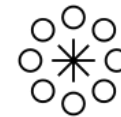
Context awareness with real-time telemetry

Full context awareness + knowledge base + real-time telemetry provide a hyper-localized, curated experience



Secure deployment of the entire AI stack

Zero-maintenance autonomous database experience for mission critical workloads behind the corporate firewall



Ready-to-deploy on cloud or on-premises

Certified cloud AI stack from AWS & IBM Cloud or on-premises with AMD & Nvidia on Dell servers

What else can **Db2 Genius Hub** do?



Unified management

Manage all your Db2 systems from a single pane of glass



Monitoring drill-downs

Investigate and resolve issues with precision



Query optimization

Tune queries faster with AI-powered recommendations



Q Replication monitoring

Create and monitor data pipelines with Q Replication



Advanced automation

Automate scripts, schedules, and run books to save time



Tune configurations

Maximize performance with smarter parameter tuning

IDC: IBM Brings Agentic AI to Db2 to Enable an Autonomous Database Experience

53%

Organizations already
have AI agents in
production

77%

Agentic AI adoption rate
for IT operations

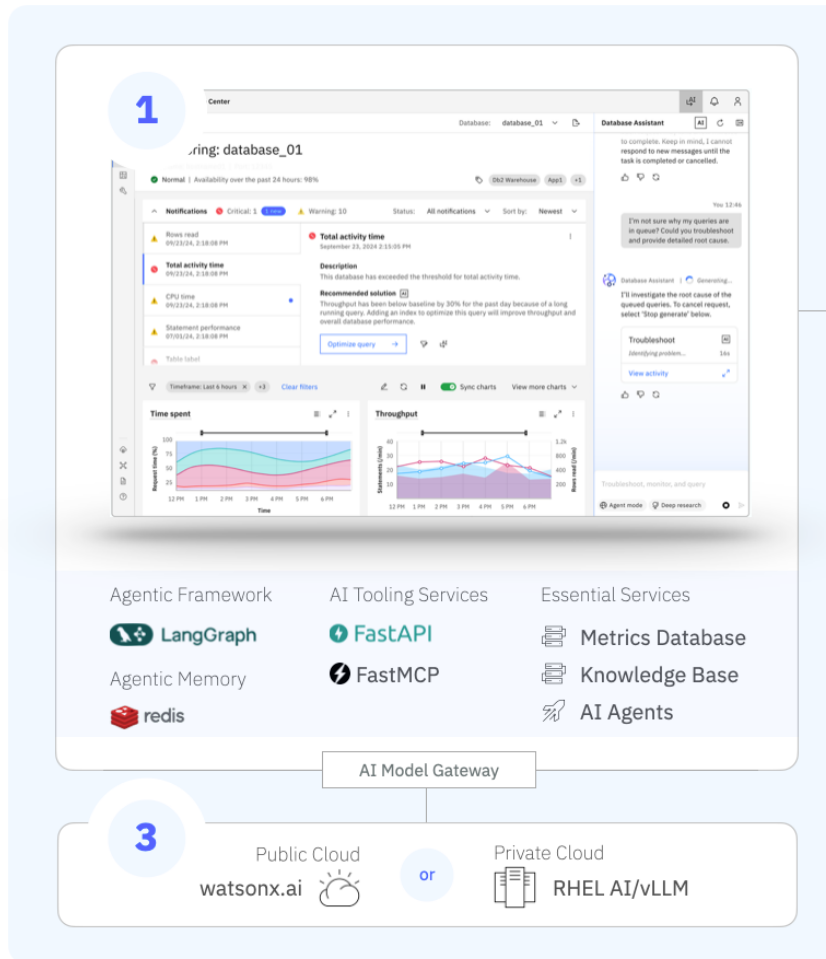
“Autonomous operations matter because enterprises want DBMS platforms to deliver consistent performance and availability with less routine manual work.”

“IBM is explicitly positioning the Db2 autonomous database experience to span cloud, private cloud, and on-premises deployments, including regulated and air-gapped environments. This matters because most enterprises continue to run databases across a mix of environments, and autonomous operations that behave inconsistently across deployment models will be difficult to operationalize.”

Db2 Genius Architecture

Database
Console

AI Stack



Connect to
Fleet

- Db2 on IBM Cloud
- Db2 on AWS
- Db2 on Azure
- Db2 on Google Cloud
- Db2 on Private Cloud

Management & Deployment Experience

- Database Console**
DBAs deploy the Db2 AI Edition, which provides autonomous capabilities across the fleet
- Connect to Fleet**
DBAs connect to fleet of Db2 databases deployed across public and private cloud
- AI Stack**
AI stack supports the agentic capabilities, deployed on either public or private cloud, leveraging lightweight, cost-effective Granite 4.0 model

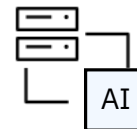
3 key takeaways



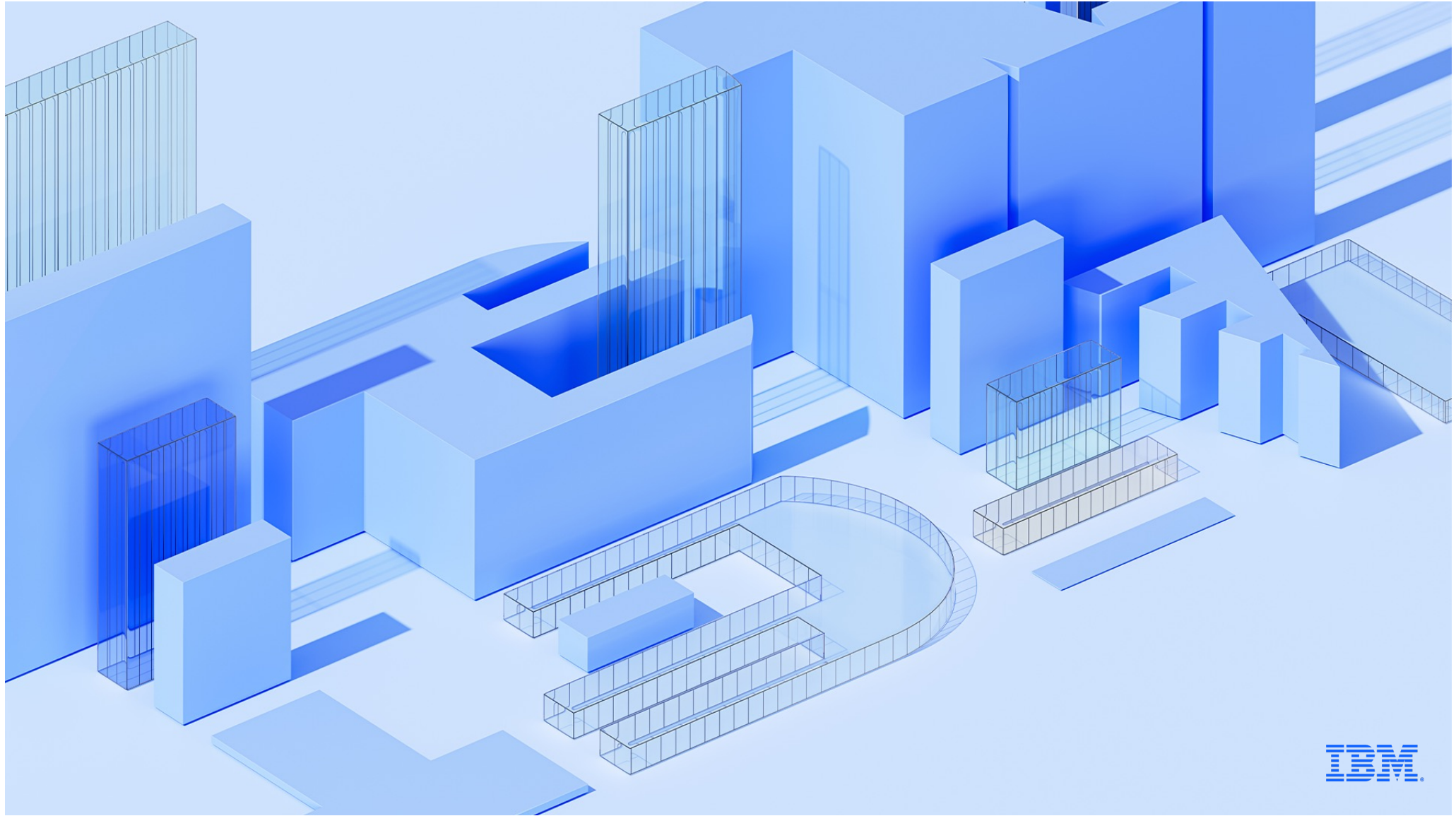
AI is transforming how DBAs manage fleets of databases



Db2 Genius Hub delivers an autonomous database experience w/ agentic AI



Now is the time to leverage AI to reduce costs and gain operational efficiencies



IBM.