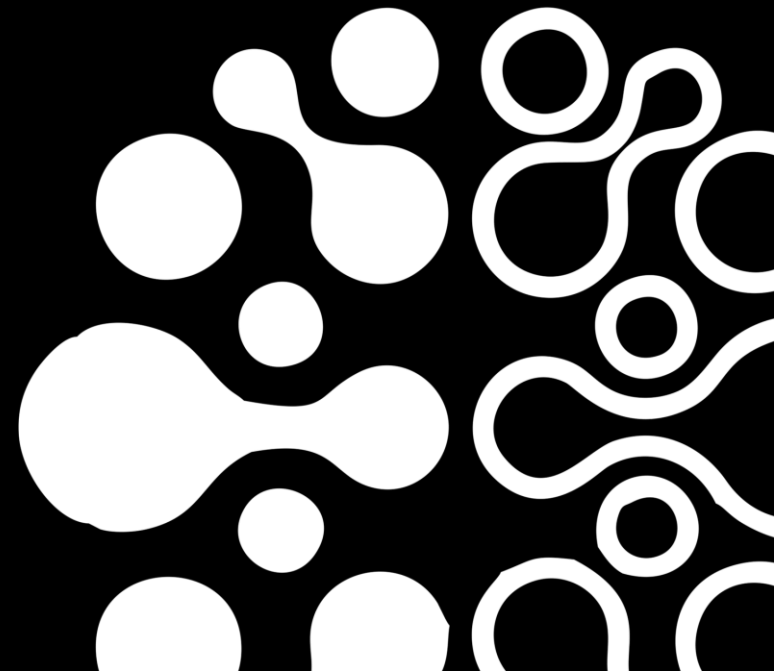




Artificial Intelligence • Database Administrator

For Microsoft SQL Server

February 2024



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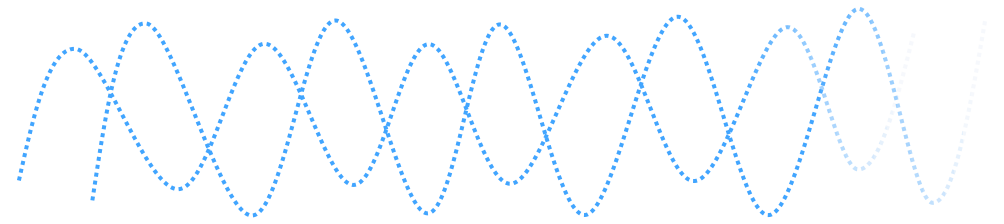
[Achievements Unlocked](#)

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The fluctuation in database response time causes inconsistent business performance

Continual innovations built into Ai-DBA, giving you higher level of stability in business performance



Onboard Expert DBAs

You can perform as good as an expert DBA by few clicks.

- Reduce costs by providing preventive database maintenance.
- Catastrophic problem prediction through Machine Learning.
- Simplify the database administration and SQL Server farm management.
- Control your SQL Server utilization through a centralized portal.
- Get instant access to recommendations.
- Reduce time spent on maintenance and administration.
- View comprehensive reports for resource utilization.
- Automate repetitive processes by utilizing APIs.
- Pay-As-You-Go (PAYG) charging model with zero commitment.



AI-DBA Central Portal

Manage database farm from simplified administration portal

The screenshot displays the AI-DBA Central Portal interface. At the top left is the AI-DBA logo. The main dashboard features four summary cards: 'Total Recommendations' (189), 'Failed Recommendations' (9), 'Succeed Recommendations' (15), and 'Scheduled Recommendations' (0). Below these are navigation buttons for 'Servers', 'Security', 'Gateway', and 'Document'. A 'Recent Page' table is visible, listing various pages viewed across different servers and their last view times.

Page	Server	Last View
Recommendations	SQL2022	12/14/2023 21:59:32
Overview	SQL2022	12/14/2023 21:59:30
Overview	SQL2016	12/14/2023 02:11:01
Configuration	SQL2016	12/14/2023 02:09:53
Documentaion	SQL2022	12/13/2023 06:55:10
Metrics	SQL2022	12/13/2023 06:55:00
Severe Alerts & Errors	SQL2022	12/13/2023 06:54:56
Optimized Queries	SQL2022	12/13/2023 06:53:03
Overview	SQL2017	12/13/2023 06:46:12

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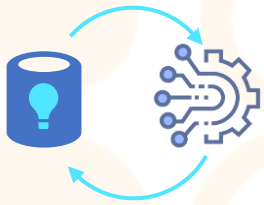


Hero Features

Artificial Intelligence – Database Administrator

New technology with intelligence over all your SQL Server database management process

Ai Administration



AI and Machine Learning over all databases with the power of Azure SQL, Python, R, and Azure Cognitive Services

Intelligence performance optimization



200 Resource-intensive query optimization within five minutes

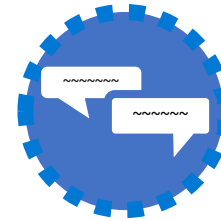
~60% Performance Enhancement with zero code changes

Intelligence over data security



The best of machine learning and abnormal detection on data access and security

Intelligence communication



The first ever system in which humans can communicate and command to perform a task

Extensive knowledgebase



The best internet search, intelligence summarization, and itemization

Ai administration over databases

Preventive maintenance and proactive administration with power of machine learning

Intelligence maintenance window



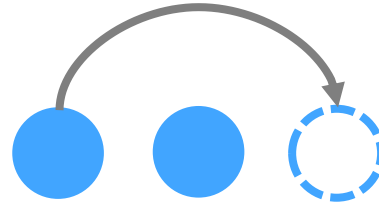
Exact peak and non-peak hours of SQL Server database instance for better maintenance window allocation

Preventive maintenance



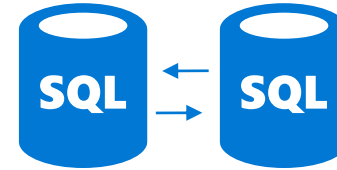
Predict upcoming problems via historical data analyzed in prediction models, and provides workaround instructions and scripts to prevent catastrophic disaster

Proactive administration



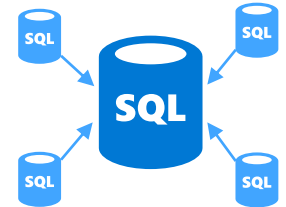
Analyzes the statistical data and provides recommendation base on database workload to get utmost from hardware resources

Intelligence high availability



Analyzes the SQL Server instances within the farm, evaluate and recommend for best high availability solution for existing workload and infrastructure

Intelligence consolidation



Evaluate the database workload and compatibility to recommend consolidation for better use of licenses and hardware resources.

Intelligence performance optimization

Gain performance with no app changes with intelligence query optimization



Challenge

DBA's spend most of their time tuning database performance, leading to high operational costs



Solution

Intelligence performance optimization tasks for mission critical databases

Database structure and indexes analysis

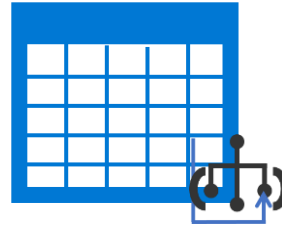


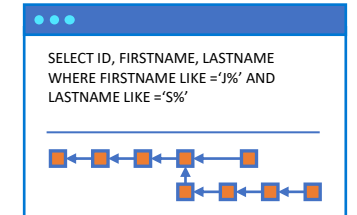
Table and index structures are evaluated based on database workload, configuration and queries

Problematic queries revision



Rewrites the long running queries base on best practices, tables structure and indexes.

Expensive query plan resolution



Alters the existing indexes or create new indexes to reduce the cost of query execution and enhances the performance.

You need a system that keeps up your databases with the changing world

The system learns from workload,
predicts catastrophic disasters and
recommends the necessary changes



Intelligence over data security

Prevent data security breach – Always keep a step ahead



Challenge

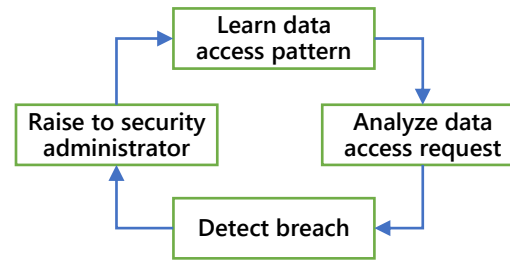
Identifying vulnerabilities and preventing sensitive data leak requires high-cost solutions



Solution

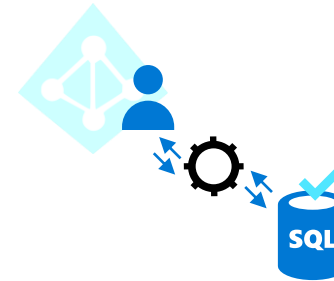
Intelligence features for data classification, access privilege, access pattern analysis and monitoring & alerting

Intelligence abnormal activity detection



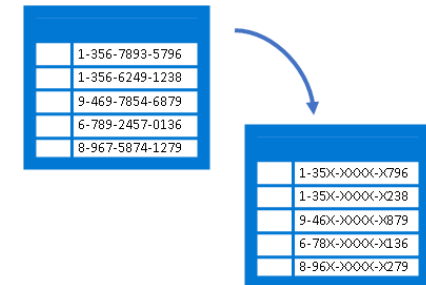
Learns within 3 months and detect abnormalities for existing users within a minute

Active directory synchronization



Synchronizes and validate account session every 30 seconds for linked SQL Server instances

Intelligence data masking



Analyzes and identifies the table columns for data masking based on knowledge base and model

Intelligence communication

First ever system to receive command via natural language



Challenge

DBA in charge is on leave or entity does not have in-house DBA, whilst require to perform basic Adhoc tasks



Solution

Intelligence communication enables human and system collaboration via natural language processing.

Note

- * Certain critical commands will not get process such as DROP DATABASE, DROP TABLE, DROP FUNCTION, SHUTDOWN and etc.
- * Certain authorized users will able to communicate with system.

Intelligence
e-mail processing



Receive and process natural language via E-mail and communicate with user if further information is needed

Intelligence
conversation



Receive and process natural language via the portal and respond based on live data in the internet, and the collected telemetry data

(Available in Private Preview)

Extensive knowledgebase

The best of internet search, intelligence suggestion and self-healing



Challenge

Identifying correct workaround is time consuming and tricky.

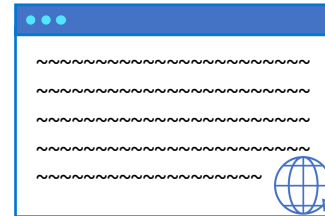
DBA might overlook some underlying errors and warnings.



Solution

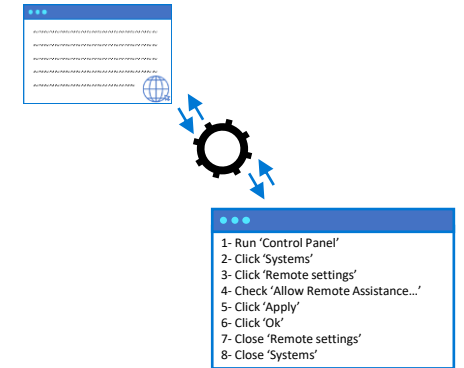
Intelligence features for internet search and self-healing enable the system to identify, search and fix the underneath errors automatically

Intelligence Internet search



Searches internet for a workaround for the errors raised in database or windows server. The web page content is evaluated to assign the relevancy level with the error

Intelligence self-healing



Summarizes and itemize the web page content, the generated action steps are fed to the agent service to apply the workaround automatically

(Available for Private Preview)



Leverage Ai to gain fabulous enhancement

Deployment at your choice

Deployment models with loose components coupling



Challenge

Certain industries are not allowed to use Cloud platform for any purpose.



Solution

The on-premise deployment allows enterprises to enjoy benefits of intelligence solution.

Hybrid



The data repository resides at the customer or partner premise.

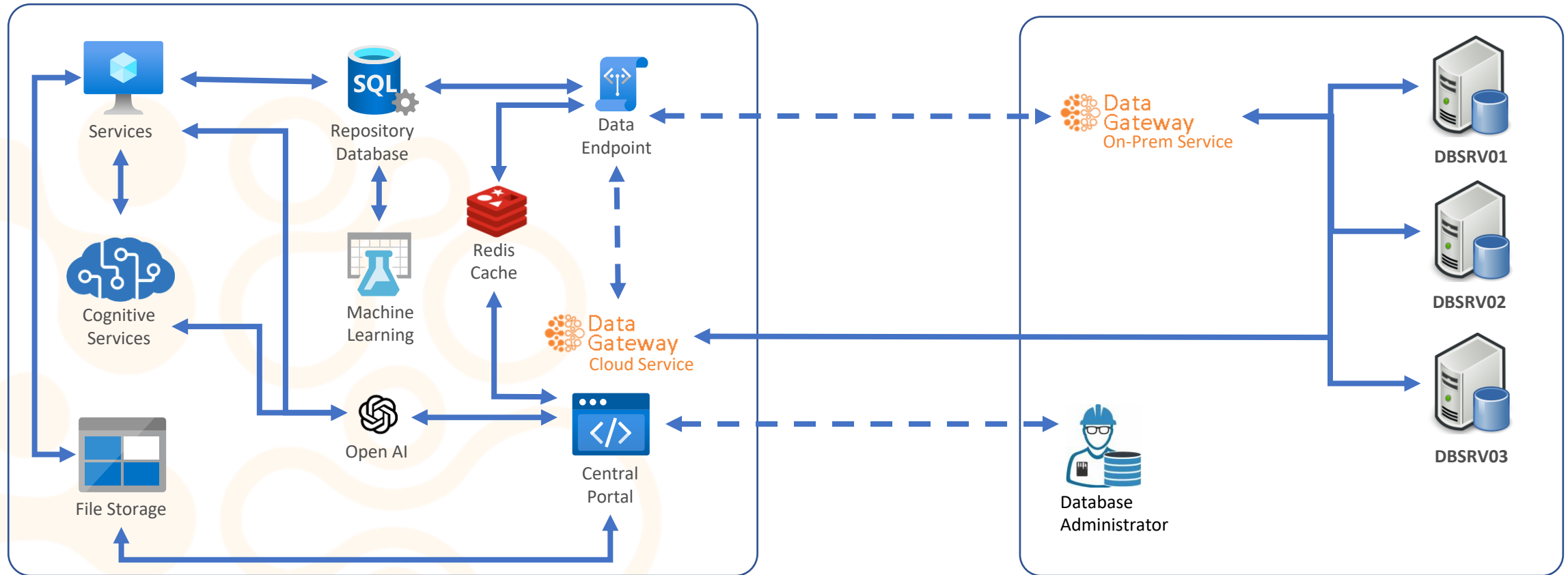
On-Cloud



Data repository, report repository and compute engines are located in the designated region.

Data Movement and Workflow

Data collection and movement blueprint



The Recommendation Platform

Data collection and movement blueprint

Data Sources

- Event Logs
- Traces
- Metrics
- Management Views
- Activities

Services

- Data Gateway

Features

- AI Administration
- Preventive Maintenance
- Security Hardening
- Abnormally Detection
- Performance Tuning
- Prediction & Real-Time Notification
- Automation & Quick Fix

Teams

- Database Administrators
- Database Developers
- Application Developers

Available Regions

Data resides within your region

Regions	North America	Asia Pacific	South America	Africa	Europe
Location	Iowa, United States Montreal, Canada	Singapore	São Paulo State, Brazil	Johannesburg, South Africa	TBD
Data residency	Stored at rest in the United States, Canada	Stored at rest in the Singapore	Stored at rest in the Brazil South	Stored at rest in the South Africa	TBD
Powered by	Microsoft Azure	Microsoft Azure	Microsoft Azure	Microsoft Azure	TBD
Available to	All customers and partners	All customers and partners	All customers and partners	All customers and partners	TBD

Target Platforms

Get all the databases in a good shape and health

Microsoft SQL Server 2005
Microsoft SQL Server 2008
Microsoft SQL Server 2008 R2
Microsoft SQL Server 2012
Microsoft SQL Server 2014
Microsoft SQL Server 2016
Microsoft SQL Server 2017
Microsoft SQL Server 2019
Microsoft SQL Server 2022

Microsoft Azure SQL Managed Instance
Microsoft Azure SQL Database
Microsoft Azure SQL Pool

Google Cloud SQL for SQL Server
Amazon Web Services (AWS) RDS for SQL Server

Free Support and Assurance

Get the best support and advice with zero additional charges

Support or advisory Ticket



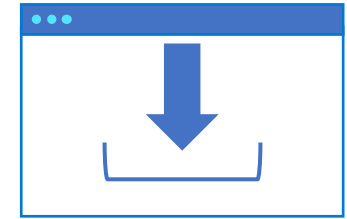
We provide support or advisory for purchased subscriptions within 24 hours
The support is in the English language.

Connect with expert engineers



Connect with expert engineers offer unprecedented expertise and education on AI-DBA product. Our engineers openly sharing information with a goal of improving the user experience and product functionalities.

Receive hotfixes

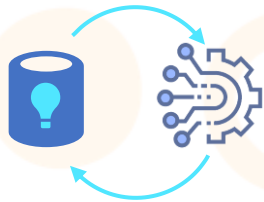


The hotfix is built by developers and applied to identical environment or all existing Ai-DBA services. Hotfixes are tested at engineering lab environment prior release to production.

Achievement Unlocked

You can trust AI-DBA to do the job for you.

Intelligence administration



- 3,681** databases are managed on a daily basis
- 1,574** instances are managed on a daily basis
- 1,263** Catastrophic issues predicted and mitigated
- 17** SQL Server farms evaluated for consolidation
- 481** Pairs of SQL Server instances evaluated for high availability

Choice of target SQL Server



- 3,681** databases are involved
- 84.3%** Mission critical databases
- 15.7%** Cloud hosted

Intelligence performance optimization



- 1,681,579** resource-intensive queries tuned
- Average **57.6%** performance improvement per database

Insights over data security

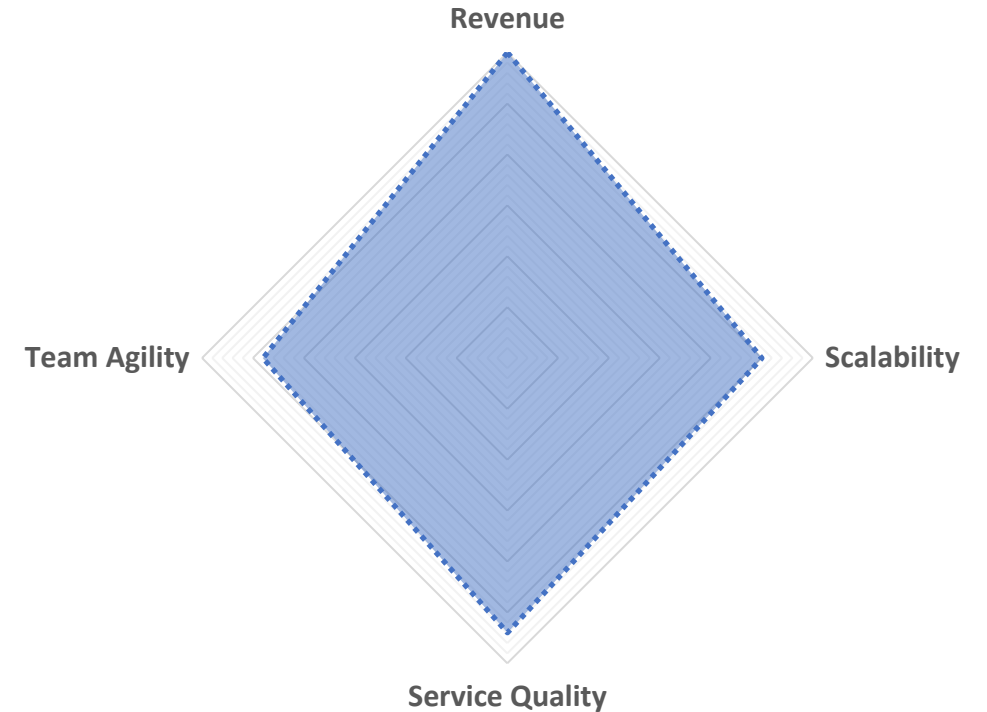


- 3,875,671** data access patterns learned
- 395,275** abnormal data access identified and alerted

Benefits and White Labels

Wrap the solution with your own brand

- Rebrand for your potential customers
- Up to 3x retail markup for extra revenue
- Up to 25X scale DBA team capacity
- Increased deliverables quality
- Increased management observability





HIKOKI



alcom

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Try it, it works and you can trust it.