

Kyligence Datasheet

A leading intelligent big data analytics solution provider

Leading Intelligent Big Data Analytics Solutions Provider

Kyligence is committed to the development and application of next-generation intelligent big data analytics platform. Both on-premise and in the cloud, Kyligence can extend data analysis to terabytes or even petabytes with sub-second query latency, accelerate mission critical queries and enable delivering big data applications to massive users.



About Kyligence



Kyligence is a data-tech company focusing on big data analytics and founded by the team who created Apache Kylin – the first top-level project in Apache Software Foundation (ASF) from China. Powered by *Apache Kylin*, Kyligence provides Kyligence Enterprise – an intelligent enterprise big data analytics platform for the on-premise market, and also Kyligence Cloud for the cloud solution. Kyligence has won lots of well-known customers across different industries including Huawei, China Unicom, OPPO, SAIC, Pacific Insurance Group, China UnionPay, Guotai Junan Securities, Xinhe. With two headquarters located in China (Shanghai) and US (Silicon Valley), Kyligence also sets up offices in Beijing, Shenzhen, etc. Kyligence has been recognized and venture-backed by Redpoint, Cisco, China Broadband Capital, Shunwei Capital and Eight Roads Ventures (Fidelity International Limited).



About Apache Kylin



Apache Kylin is a leading open source OLAP (online analytics processing) engine for Big Data capable for sub-second query latency on trillions of records. Since being created and open sourced by eBay in 2014, and graduated to Top Level Project of Apache Software Foundation in 2015, Kylin has quickly be adopted by thousands of organizations world widely as their critical analytics application for Big Data. Apache Kylin won InfoWorld Bossie Awards: The Best Open Source Big Data Tool in the year 2015 and 2016.



Kyligence Enterprise

Kyligence Enterprise is a Hadoop-based intelligent enterprise big data analytics platform, which provides sub-second query latency on petabyte-scale dataset, makes OLAP (Online Analytical Processing) and BI (Business Intelligence) applications work on big data, empowers data analysts and business users quickly gain insights and business values from huge amounts of data.

Kyligence Enterprise provides a unified big data analytics platform for analysts, data scientists and engineers, enables them work on big data efficiently without requiring any programming skills. Based on Apache Kylin, Kyligence Enterprise makes comprehensive innovations and enhancements in performance, security, and stability, provides a next generation enterprise solution for big data analytics.

Kyligence Enterprise is a Hadoop-based enterprise big data analytics platform, enables sub-second SQL query latency on petabyte-scale dataset with internet-scale concurrency.

BI application

Interactive Analysis Reporting Dashboard Data Mining Data Discovery

OLAP/Data Mart

Kyligence Enterprise

Data Lake

HDFS

YARN

Map
Reduce

Hive

Spark

Kafka

...

On-demand
Deployment

On-premises

Hybrid

In the Cloud



Sub-second
query latency



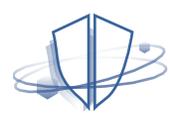
Unified big data
analytics platform



Intelligent query
acceleration



Seamless
integration with BI



Comprehensive
enterprise features



Kyligence Cloud

Kyligence Cloud is a cloud service to help customers move big data analytics to cloud smoothly. Powered by Apache Kylin, Kyligence Cloud leverages cloud infrastructure to accelerate the process of moving big data analytics to cloud, provides a simple, secure and cost-effective solution with high-performance, concurrency, and scalability.

With Kyligence Cloud, you can quickly deploy a Hadoop-based big data analytics cluster in public cloud like *Microsoft Azure, Amazon AWS, Alibaba Cloud, Google Cloud Platform, HUAWEI CLOUD*, etc., connect to various data sources and perform interactive analysis on huge amounts of data with sub-second query latency.

Powered by Kyligence Enterprise, Kyligence Cloud provides a simple and secure solution for moving big data analytics to cloud with high query performance, concurrency and stability.



Sub-second Query Latency

Harness the power of cloud infrastructure and Kyligence Enterprise, accelerate SQL queries at interactive speed on PB-scale data.



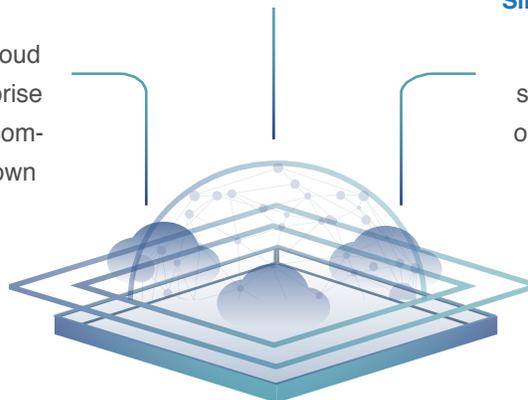
Safeguard Data Security

Based on high durability of cloud storage and Kyligence enterprise security, all data are stored, computed and analyzed in your own account.

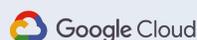


Simplify Infrastructure Management

One-click deployment with auto scaling up/down. Intelligent system operation with continuous optimization.



Cloud
Platform

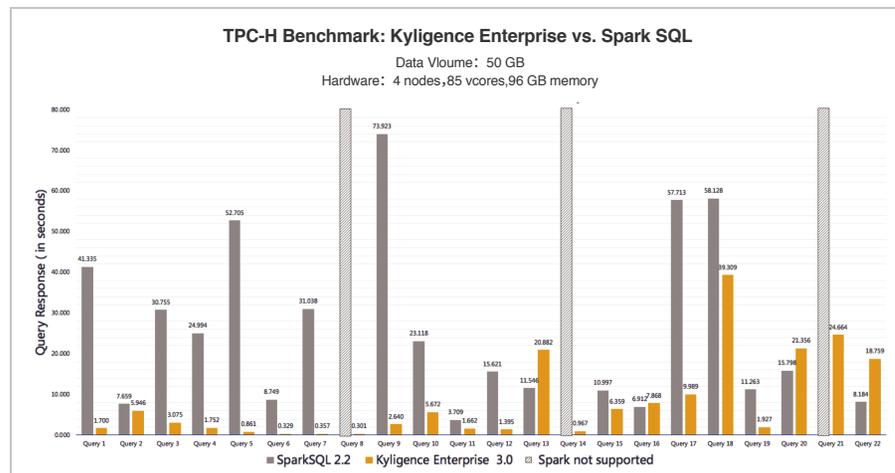




Highlights

■ Lightning-Fast Query Performance

Kyligence has industry-leading high performance with sub-second SQL query latency on petabyte-scale dataset, enables BI applications work on big data at internet-scale.



Kyligence Enterprise TPC-H benchmark

In our TPC-H benchmark test, Kyligence Enterprise can execute all queries successfully under limited hardware resources. Most of the queries can return results within 3 seconds or even within 1 second, which hits a 15x performance improvement on average compared to Spark SQL 2.2.

Sub-Second Query Latency

Based on Hadoop scale-out architecture, Kyligence extends big data analytics to terabytes or even petabytes, ensures industry-leading query performance via intelligent pre-aggregation and table index technology.

High Concurrency at Internet Scale

Powered by sub-second query response and scale-out architecture, Kyligence can achieve internet-scale high-concurrency to deliver big data analytical applications to massive users.

Patented Columnar Storage Engine

Via Kyligence patented columnar storage engine, Kyligence improves data access efficiency for different analysis scenarios. Its query performance is much better than Apache Kylin while saving more than 50% storage.

■ Auto Modeling

Based on multidimensional modeling theory, Kyligence provides various means of modeling for different types of users, helps them quickly build up data models to accelerate queries on big data.

Auto Modeling

Kyligence can analyze popular SQL queries based on history, intelligently build up models and speed up query performance, help data analysts gain insights from big data much faster and improve their productivity.

Visual Modeling

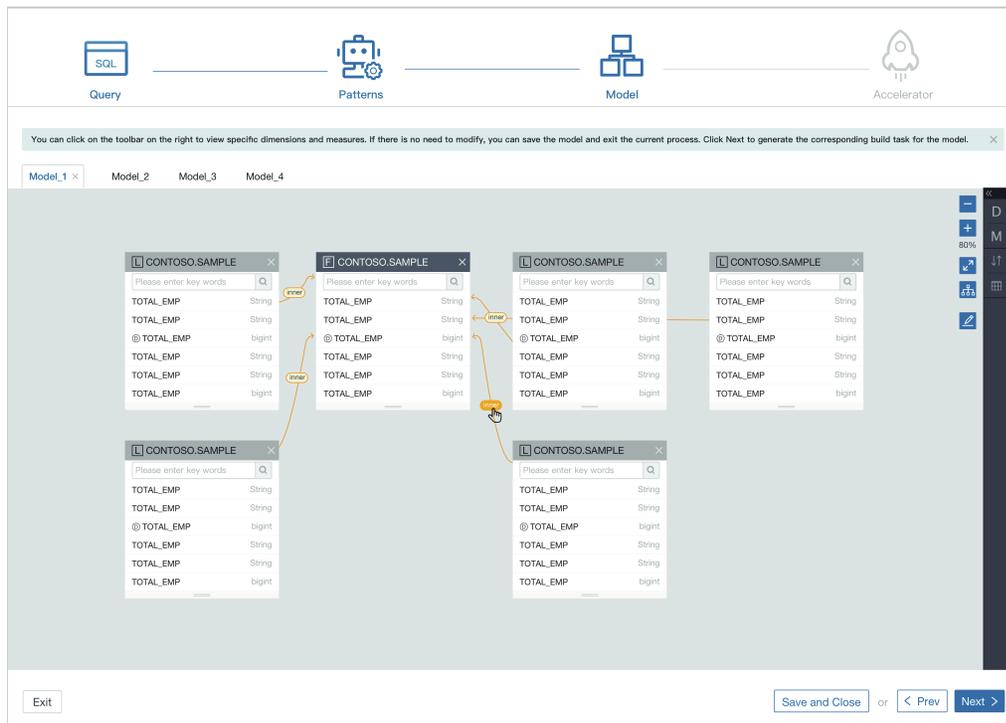
Simply drag and drop, quickly build up a data model without any programming to achieve distributed processing and analysis of big data.

Built-in Statistical Functions

In addition to basic statistical functions, Kyligence also embeds in advanced statical functions including Top-N, Count Distinct, Percentile, Correlation, etc, helps data analysts gain deeper insights.

Computed Columns

Based on Hive's built-in functions and user-defined functions (UDF), Kyligence enables flexible data processing and complex calculations for data wrangling or other advanced scenarios.



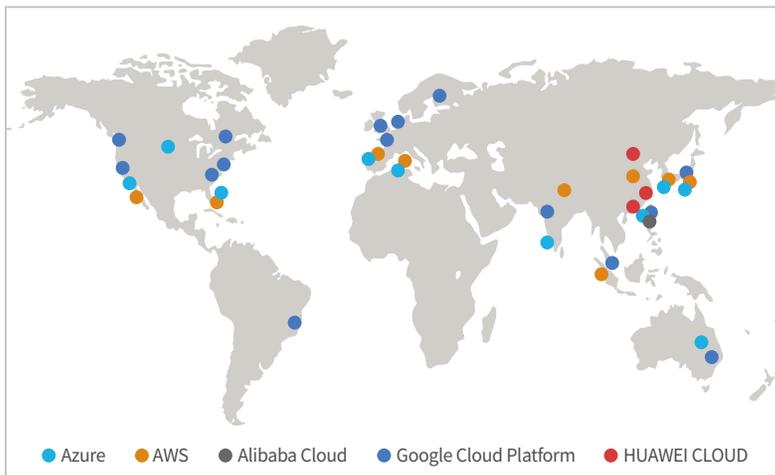
Intelligent auto modeling

■ Cloud-Native

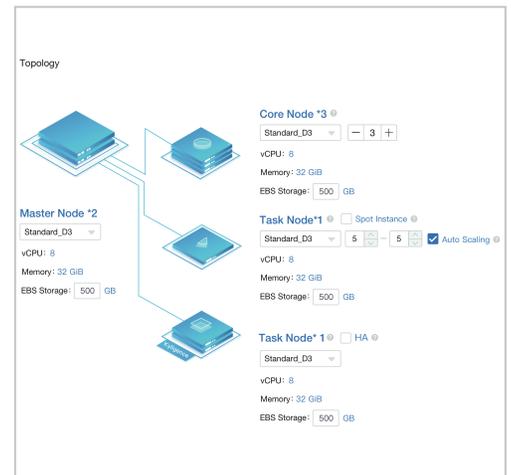
Kyligence's solution in the cloud, namely Kyligence Cloud, is purposely built for cloud environment with considering all the main characteristics of big data applications running in cloud. Harnessing public cloud for computing infrastructure, Kyligence Cloud provides a cloud-native solution with core capabilities like one-click deployment, seamless integration, and elastic scalability.

One-Click Provision

Kyligence Cloud simplifies deployment with an easy-to-use web UI and automates the deployment process within 30 minutes on any public cloud platforms like Azure, AWS, Alibaba Cloud, Google Cloud Platform, HUAWEI CLOUD.



Deploy globally on public cloud infrastructure



Easy-to-use cluster deployment web UI

Seamless Integration

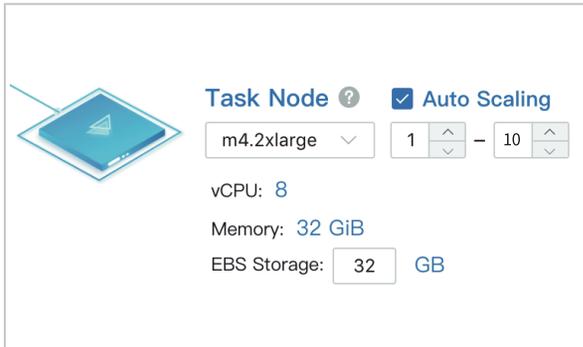
Kyligence Cloud fully integrates with cloud Hadoop service like Azure HDInsight, AWS EMR, supports new and existing Hadoop clusters for big data infrastructures.

Supporting high durability cloud storage, such as Amazon S3, Azure Blob Storage / ADLS, Alibaba Cloud OSS.

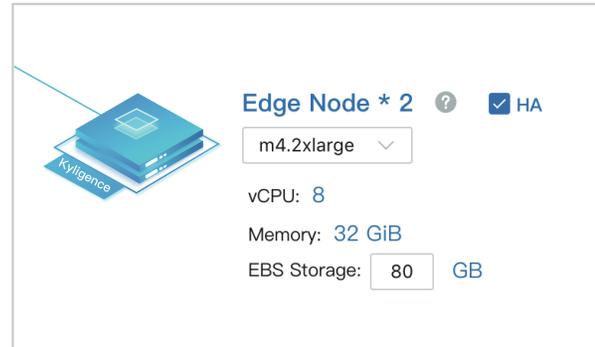
Easy connect to various data sources in the cloud, e.g. cloud data warehouse/database, streaming data, etc.

Auto-scaling

Leverage the elasticity of cloud computing, Kyligence Cloud can automatically scale up/down cluster resources according to system workload, optimize performance and cost while comparing with systems created for static maximum workloads. With supporting HA deployment, Kyligence Cloud ensures high availability and concurrency as a big data query service.



cluster auto-scaling



HA deployment

Seamless Integration with BI Tools and Applications

Kyligence supports the integration with BI tools or enterprise applications via multiple interfaces, empowers business users with easy and quick access to big data.

 Power BI			
			
			

In no particular order

Enable Your Favorite BI

Supports all popular BI tools via ANSI SQL interface, protect your BI investment without changing the behavior of business users.

Enterprise ODBC Driver

Ensure the connectivity and compatibility to various BI tools via Kyligence enterprise ODBC driver

Rest API

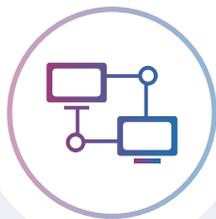
Support REST API to integrate Kyligence service into existing applications.

Deep Integration With BI

Support Power BI Direct Query; Export to Tableau TDS.

**Comprehensive Enterprise-level Features**

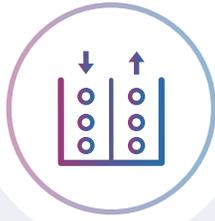
Kyligence solutions are designed for enterprise applications, providing comprehensive innovations and improvements in performance, reliability and security, supporting DevOps, and integrating seamlessly with customers' existing IT platforms and systems.

**Compatible with main Hadoop distributions**

Certified with main Hadoop distributions from Cloudera, MapR, Hortonworks, FusionInsight.

**Fine-grained data access control**

User/Role based access authentication and authorization; Fine-grained data access control to cell level.



Enterprise Security

Based on SAML 2.0 to implement Sing-sign-on (SSO); Support LDAP to integrate with existing identity and access management (IAM) systems.



Multi-cluster and HA Deployment

Support multi-cluster deployment as well as HA (High Availability), ensure high availability of big data query service.

■ Apache Kylin VS. Kyligence Enterprise

	Apache Kylin	Kyligence Enterprise
Positioning	Open source OLAP	Enterprise data warehouse
Query Capability	Only aggregates	All
Core Technology	Pre-aggregation	Patented pre-aggregation and index
Storage Engine	HBase	Patented columnar storage
Modeling Mode	Only OLAP expert	Patented intelligent modeling
Push Down	○	●
Drill Down to Transaction-level	○	●
Visualized Modeling	○	●
LDAP/ Kerberos/AD	◐	●
Cell Level Security	○	●
Built-in BI Tool	○	●
Self-served Diagnose	○	●
Technical Support	○	7 X 24 SLA

Apache Kylin vs. Kyligence Enterprise feature list



Our Customers (Selected)

Kyligence has helped lots of well-known companies in various industries like finance, telecom, manufacturing, retail, etc., greatly accelerate their digital transformation process with Kyligence unparalleled big data analytics platform.

 Finance	 中国银联 China Unionpay	 陆金所 Lufax.com	 太平洋保险 CPIC	 汇添富基金 坚信长期的力量
 Telecom	 中国电信 CHINA TELECOM	 中国移动 China Mobile	 China unicom 中国联通	
 Manufacture	 HUAWEI	 Lenovo	 oppo	 上汽通用汽车 SAIC-GM



Global Partners

 Azure Microsoft Azure Partner	 amazon web services Partner Network Amazon Web Service Technology Partner	 tableau PARTNER Tableau Technology Partner
 MapR Converge Partner	 Cloudera Sliver Partner	 Huawei Solution Partner

In no particular order

Unleash Big Data Productivity



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