Realize your vision

SAMSUNG SDS Cloud

Database

EPAS
PostgreSQL
Microsoft SQL Server
MariaDB
MySQL
ScyllaDB
MongoDB

SAMSUNG SDS

Database
EPAS

Enterprise-class relational database based on open source PostgreSQL

EPAS (EDB Postgres Advanced Server) is a relational database management system for enterprises based on open source PostgreSQL. While enjoying high compatibility with traditional Oracle databases, customers can achieve their required performance, availability and security in the cloud environment.

Compatibility with Oracle

With strong compatibility with Oracle DBs, it is the most globally preferred database in cloud migration. EPAS provides you with stable database service at a low price.

High performance

On top of the latest version of stable PostgreSQL, other features such as partitioning and enhanced read capability were added in order to offer high-performance database service.

Enhanced security features

Compared to other open source-based RDBMS, EPAS provides more enhanced data security features such as Row-Level Security (Virtual Private Database), preventing SQL Injection attacks, and audit function.

Enhanced productivity

EPAS increases development productivity with a variety of function packages proven effective by developers, nested tables, hierarchical queries and explicit transaction control within stored procedures.

EPAS Service Architecture

Offerings and Pricing

· Three types of products are available packaged with SDS Cloud Compute products
  (Packaged with Virtual Server, Packaged with Container, Packaged with Bare Metal Server)
· Prices may vary depending on hardware and OS configuration, and operation service levels

Related Other Products

Compute	**Virtual Server**	Virtual server optimized for various use purposes
	Container	Virtual server based on container technology
	Bare Metal Server	Single-tenant and high-performing physical server
	Auto-Scaling	Automatically adjusting resources based upon demand
Storage	**Block Storage**	Storage assigned to the server
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DevOps Tools	**MAXIGENT**	Monitoring service for cloud resources and applications

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Database

PostgreSQL

PostgreSQL relational database

This service provides open source PostgreSQL community edition as well as enterprise-class service based on Samsung SDS' technical expertise. This service is packaged with SDS Cloud compute products that customers can easily deploy and use applications without manually installing or configuring the server.

Strong compatibility with Oracle
For excellent compatibility with Oracle services, features such as SQL Hint, SQL Query, DB performance management interface are added to this service on top of basic EPAS capabilities.

User convenience
We provide various user-friendly operation services to make it easier for customers to carry out PostgreSQL monitoring, backup, scaling and deployment.
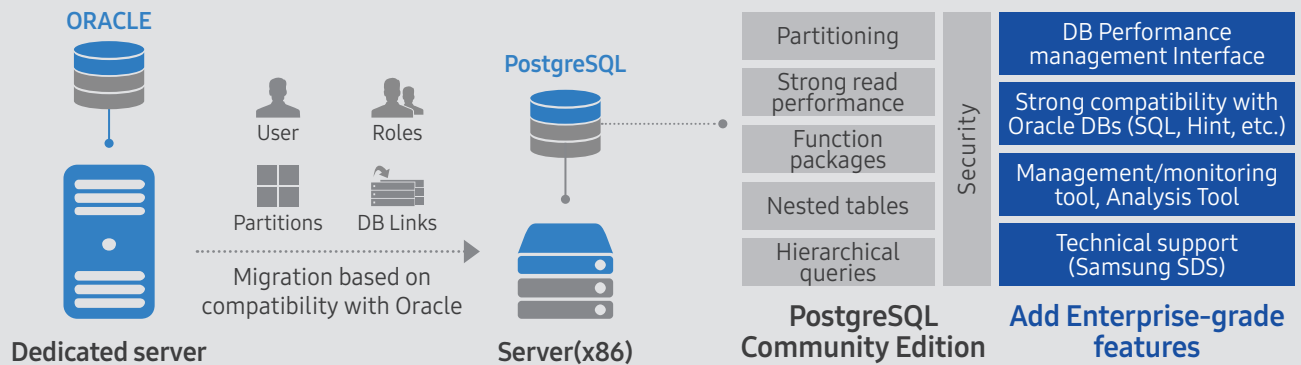
Customized automated backup
Customers can back up data based on their preferred conditions such as backup cycle time and data retention period.

Enhanced availability
This service provides enhanced availability with PostgreSQL's capability of replicating data to a remote location in real time and high-availability redundant settings that allows failover.

PostgreSQL Service Architecture

ORACLE

User | Roles

Partitions | DB Links

Migration based on compatibility with Oracle

Dedicated server

PostgreSQL

Server(x86)

Partitioning
Strong read performance
Function packages
Nested tables
Hierarchical queries

Security

PostgreSQL Community Edition

DB Performance management Interface
Strong compatibility with Oracle DBs (SQL, Hint, etc.)
Management/monitoring tool, Analysis Tool
Technical support (Samsung SDS)

Add Enterprise-grade features

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Database

Microsoft SQL Server

Enterprise relational database

Microsoft SQL Server is an enterprise relational database for missional-critical workloads and data warehouse applications. With the SDS Cloud, one can easily build ones' database environment and get a high level of security and professional services together.

Bring your own licenses

You can use SQL Server licenses you have already purchased in Windows.

High availability

Microsoft SQL Server's real-time redundancy and online backup/recovery minimize downtime. Its database mirroring, log delivery and replication ensure high availability.
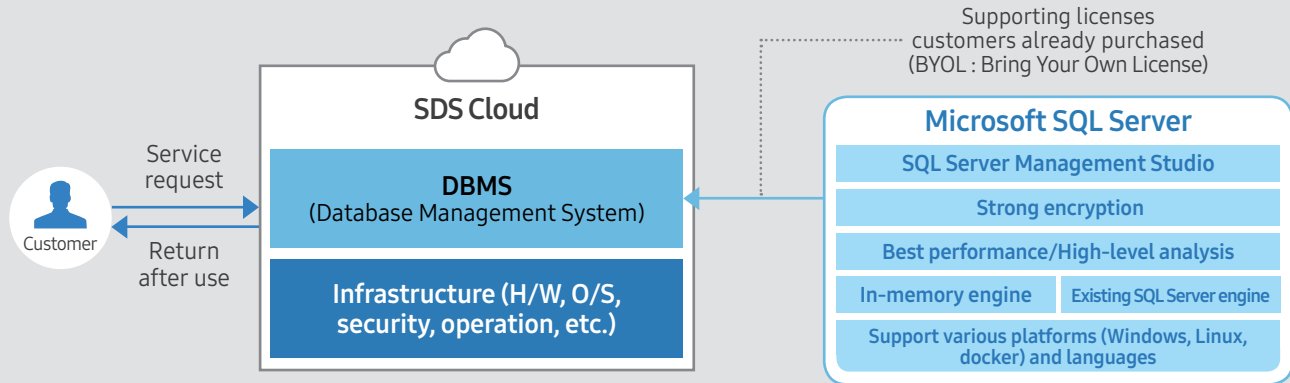
Large-sized data platform

Microsoft SQL Server provides In-Memory features and real-time processing of large data. Partitioning of large tables or indexes improves manageability. Also, it enables customers to easily manage a workload's consumption of resources.

Strong security system

Microsoft SQL Server provides strong security service based on the security solution verified by Samsung SDS. With constant update of security checklists and routine security checks, it minimizes security risks and ensures stable service operation through 24/7 security control and real-time monitoring.

Microsoft SQL Server Service Architecture

Customer — Service request → ← Return after use

SDS Cloud
- **DBMS** (Database Management System)
- **Infrastructure (H/W, O/S, security, operation, etc.)**

Supporting licenses customers already purchased (BYOL : Bring Your Own License)

Microsoft SQL Server
- SQL Server Management Studio
- Strong encryption
- Best performance/High-level analysis
- In-memory engine | Existing SQL Server engine
- Support various platforms (Windows, Linux, docker) and languages

Offerings and Pricing

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Database

MariaDB

Open source relational database with high compatibility with MySQL

MariaDB is an open source relational database with high compatibility with MySQL You can easily install MariaDB from SDS Cloud portal and get technical support for smooth operation.
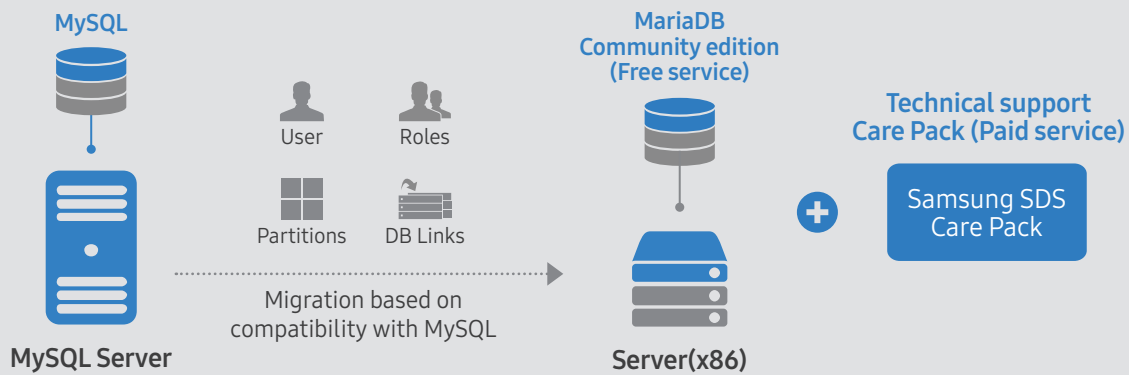
Compatibility with MySQL

Using the same source code and architecture as MySQL, MariaDB is highly compatible with MySQL and customers are able to use the commands, interfaces and APIs used in MySQL for free.

Fast and easy installation

SDS Cloud portal allows quick and easy implementation of database environment, making customers access MariaDB easily without the burden of infrastructure management and software installation.

MariaDB Service Architecture

MySQL

MySQL Server

User   Roles

Partitions   DB Links

Migration based on compatibility with MySQL

MariaDB Community edition (Free service)

Server(x86)

Technical support Care Pack (Paid service)

Samsung SDS Care Pack

Offerings and Pricing

· MariaDB community version is available free of charge (computing service charge not included)
· Care Pack service can be purchased separately when technical support is required

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Database

MySQL

Small but strong open source relational database

MySQL is an open source relational database that is fast, flexible and easy to use. MySQL can be used in SDS Cloud computing based Linux environment, and DB environment can be built easily through cloud portal. Samsung SDS also provides professional technical support services for stable operation and management.

Small but strong

MySQL is simple in architecture to ensure fast and strong performance. It also has excellent scalability and can be applied to various business environments.

Easy to install

It is easy to create MySQL through SDS Cloud portal without the burden of infrastructure management software installation.

Strong security system

MySQL provides strong security service based on the security solution verified by Samsung SDS. With constant update of security checklists and routine security checks, it minimizes security risks and ensures stable service operation through 24/7 security control and real-time monitoring.

MySQL Service Architecture
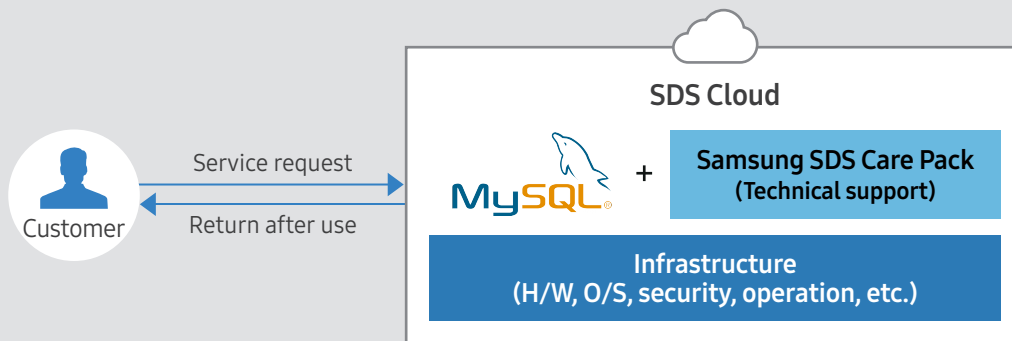
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ScyllaDB

NoSQL database with high throughputs, low costs and compatibility with Cassandra

ScyllaDB is a high-performance NoSQL database specialized for IoT and unstructured large data processing. It is fully compatible with Cassandra, an open source database, and event-driven multiprocessing enables fast data processing. It can also be combined with SDS Cloud compute products equipped with strong security system, to build more stable and scalable database environment.

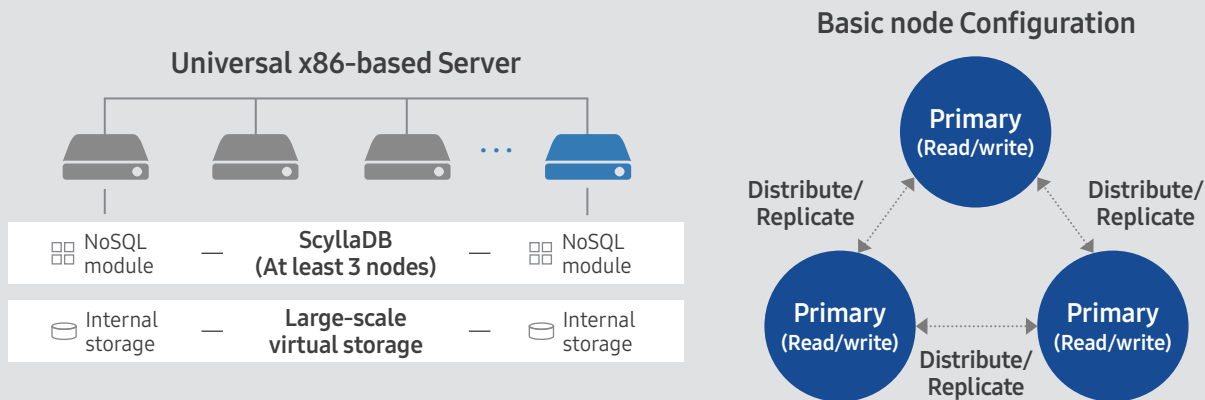|	
High performance	C++ based innovative architecture improves server utilization efficiency, allowing data processing 2 to 8 times faster than Cassandra (Throughput).
Reliability	Scylla DB is structured to process a large amount of data, which overcomes the disadvantages of memory management and provides a stable service compared to the Cassandra JVM based architecture.
Technical support	Samsung SDS offers technical support by experts through strategic partnership with ScyllaDB HQ.

ScyllaDB Service Architecture

Universal x86-based Server

NoSQL module	ScyllaDB (At least 3 nodes)	NoSQL module
Internal storage	Large-scale virtual storage	Internal storage

Basic node Configuration

Primary (Read/write)

Primary (Read/write)

Primary (Read/write)

Distribute/ Replicate

Distribute/ Replicate

Distribute/ Replicate

Offerings and Pricing

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MongoDB

Enterprise-class NoSQL database with high scalability and high performance

MongoDB is a NoSQL database service for large-volume, high-availability big data. It is designed to handle large amounts of data with low latency and high throughput. MongoDB offers auto-scaling and arithmetic operations and protects data from security threats or failure risks through 24/7 real-time monitoring.

Superior scalability

MongoDB has high data scalability with automatic distribution of data over a number of servers. Especially, even in the case of large-volume high-load data processing, it enables fast and stable processing.

Easy database operation

MongoDB has a variety of operational features that help customers easily monitor, backup, scale and deploy.
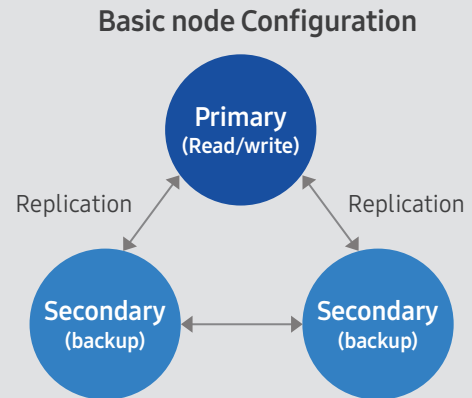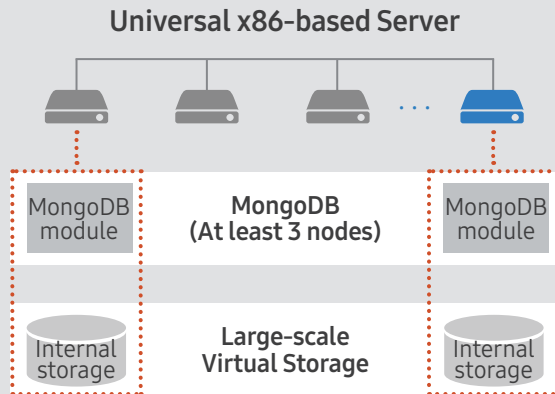
High flexibility

As NoSQL does not need to predefine schemas, MongoDB handles data regardless of its structures. Recently, MongoDB is proven useful for services such as SNS, IoT, and online games which are getting popular recently.

Strong security

MongoDB has authentication and authorization features and offers security services such as role-based access control, PKI (Public Key Infrastructure) authentication, encrypted communication (TLS / SSL), and read-only service.

MongoDB Service Architecture

Universal x86-based Server

| MongoDB module | MongoDB (At least 3 nodes) | MongoDB module |
| Internal storage | Large-scale Virtual Storage | Internal storage |

Basic node Configuration

Primary (Read/write)

Replication — Replication

Secondary (backup) — **Secondary (backup)**

Offerings and Pricing

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