Database

PostgreSQL (DBaaS)

Easily Creates and Manages Open Source PostgreSQL in a Web Environment

PostgreSQL is an open source relational DBMS that offers advanced levels of scalability and creates objects in a flexible manner. Samsung Cloud Platform provides an environment that automatically creates and configures PostgreSQL database, and to ensure the proper management of a single instance or critical data, it added features such as high availability capability, read/replication, backup/restoration, patch, parameter management, auditing, and monitoring, thereby automating DB lifecycle management.

High Compatibility with Oracle DB

PostgreSQL has enhanced its services such as SQL Hint, SQL Query, and DB performance management interface to ensure high level of compatibility with Oracle DB.

Convenient DB Management

PostgreSQL(DBaaS) uses a web-based console to automate DB managers' tasks, allowing easy access for anyone to be able to create and manage databases. With Samsung Cloud Platform taking care of complicated database management, users can focus on application development and service operation.
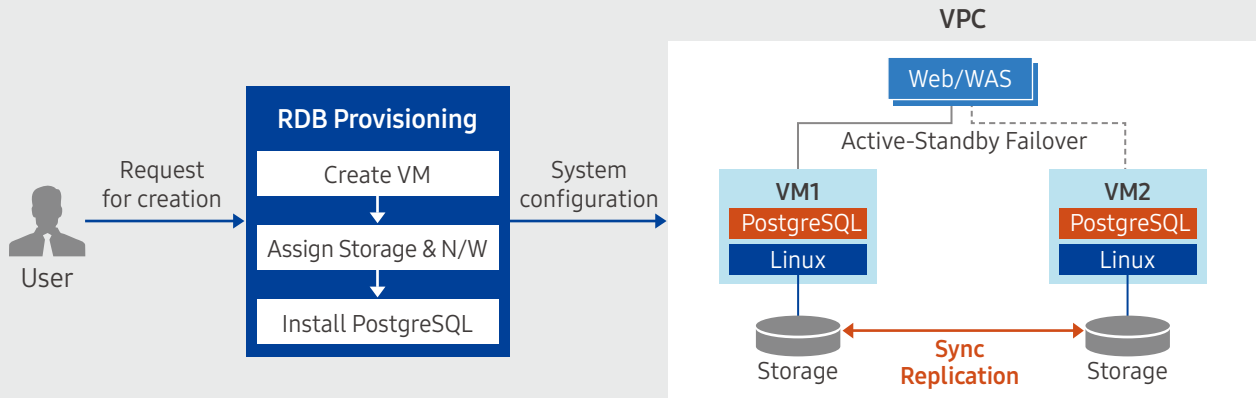
Outstanding Reliability and Availability

PostgreSQL(DBaaS) offers optimized environments to securely manage customers' data based on Samsung SDS' decades of experience and know-how on DBMS management. The highly reliable high performance infrastructure and sync replication architecture developed by Samsung SDS also ensure high availability.

Robust Security

VPC (Virtual Private Cloud)-based network access architecture enables easier separation of databases and Security Group allows secure access while automated vulnerability diagnosis and analysis preemptively responding to security threats.

Service Architecture

VPC

Web/WAS

Active-Standby Failover

RDB Provisioning

Create VM

User → Request for creation → Create VM → Assign Storage & N/W → Install PostgreSQL → System configuration →

VM1
PostgreSQL
Linux

Storage ← **Sync Replication** → Storage

VM2
PostgreSQL
Linux

Key Features

- **Rapid and safe DB creation**
  - Auto provisioning : Automatically install standard version Samsung Cloud Platform database using VM with various spec
  - HA architecture : Active-standby configuration based on SW-level synchronous replication
  - Multi-AZ configuration : HA configuration for PostgreSQL(DBaaS) across two availability zones

- **Simple and convenient DB management**
  - Backup : Provide full backup which uses DB backup feature and incremental backup which uses backup S/W. CDP-based incremental backup offers faster operations and efficient storage compared to DB backup. Archival backup data is stored in the Object Storage for both backup types.
    * CDP : Continuous Data Protection
  - Recovery : Able to recover to a specific point in time or present time based on backup files stored in storage (data & archive)
  - Patch : Provide patch function for DB minor version
  - User parameter setting : Set parameters regarding better DB performance and security
  - Read Replica : Configure read-only servers for purposes of load balancing for reading or disaster recovery(DR), in the same or different region
    ※ When deploying to another region for DR, VPC/TGW Peering (Korea) and Cloud WAN (Overseas) connection is required.

Pricing

- **Billing**
  - Provided in VM package, composed of VM & BM costs
    · Without contract : Hourly charge based on metering information of server(DB) status being 'on'
    · Contracted : Fixed monthly charge according to contract terms

※ PostgreSQL(DBaaS) service provides PostgreSQL, an open source relational database. Please refer to the PostgreSQL website for information on copyright and license of PostgreSQL. (www.postgresql.org/about/licence)

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