

Data Analytics

Vertica(DBaaS)



Data Warehouse-based High Availability Enterprise Database for Analysis/Processing of Large Datasets

Vertica is a data analysis platform that uses a single engine to perform standard as well as AI analysis of data from various sources without moving the data. To ensure the proper management of a single instance or critical data features such as high availability capability, read/replication, backup/restoration, patch, parameter management, auditing, and monitoring were added to Samsung Cloud Platform, thereby automating DB lifecycle management.



High Performance Architecture

Vertica's machine learning is designed to maximize architectural efficiency, ensuring stable performance in a mixed workload environment for Massively Parallel Processing(MPP) and SQL queries. Vertica handles queries through distributed processing, and owing to its structure that can execute a query on any node, it does not cause a single point of failure where a query isn't executed in the event of a node failure.



Convenient DB Management

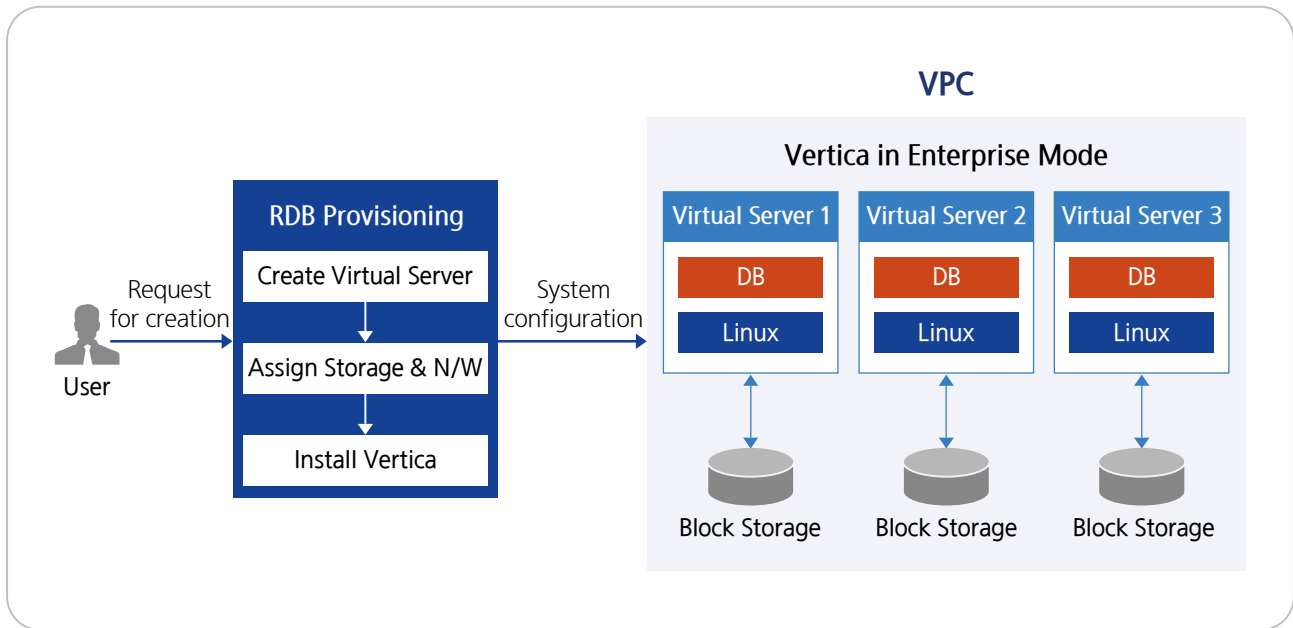
Vertica(DBaaS) uses a web-based console to automate DB managers' tasks, allowing easy access for anyone to be able to create and manage databases. With Samsung Cloud Platform taking care of complicated database management, users can focus on application development and service operation.



High Reliability and HA Configuration

Building on its extensive experience in DBMS management, Samsung SDS offers an optimal DB management environment that keeps customer data secure. In addition, being equipped with a reliable, high-performance infrastructure and a masterless cluster architecture, data replicas between nodes are stored automatically and become redundant, guaranteeing high availability.

Service Architecture



Key Features

- **Fast and secure DB creation**
 - Auto provisioning : Auto-install standard DB based on Virtual Server of various spec
 - Cluster configuration : Provide high availability masterless architecture
- **High-performance data processing technology**
 - Additional option or steps for column processing becomes unnecessary with the column-based storage technology
 - Optimized for loading and reading large data with its fast loading technology
 - Data compression and encoding are done from the data storage stage
 - DDL/DML(Data Definition Language/Data Manipulation Language) processing is done during the data compression stage
- **Simple and convenient DB management**
 - Auto-provisioning, lifecycle management
 - Choose Virtual Server based on the required spec
 - Provide additional storage for connection other than the OS disk
 - Provide subnet/IP, NAT IP, Security Group connection setting
 - Provide monitoring
 - Provide data backup using DB backup feature(Set retention period and backup start time)
 - Able to recover to a specific point in time or to a backup stored point of based on backup files stored in storage

※ Vertica(DBaaS) service provides Vertica, a big data analysis platform for enterprises. Vertica's software licenses use Bring Your Own License(BYOL), and software licenses in the cloud must comply with the provider's policies.

SAMSUNG SDS

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