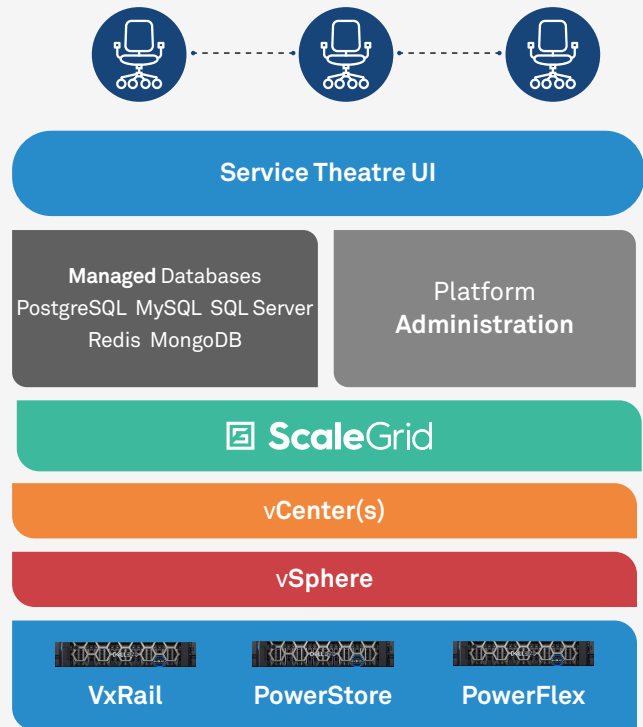# Digital Database Platform Services 2.0 Powered by Dell

Solution architecture

- ScaleGrid software is **deployed on VMware on Dell Infrastructure**

- ScaleGrid provide the basic DBaaS capability for multiple **SQL & NoSQL** database.

- The ScaleGrid has **multi-tenancy capabilities** and can be presented **to multiple customers**

- Wipro's **Service theatre** provides additional DBaaS selfheal, self-service capabilities.

- Developers and DBA self-service and **manages DBs using the ScaleGrid portal**

- **Currently supported DBMS**
  - PostgreSQL
  - MS SQL Server
  - MySQL
  - Mongo DB
  - Redis

- **DBMS coming soon**
  - Greenplum
  - Elasticsearch
  - Oracle

Service Theatre UI

Managed Databases
PostgreSQL MySQL SQL Server
Redis MongoDB

Platform **Administration**

ScaleGrid

v**Center(s)**

v**Sphere**

VxRail **PowerStore** **PowerFlex**

Today, global organizations wrestle with several challenges in managing a number of databases in varying versions, multiple configurations and patch levels that they need to support all their applications. As a result, their database management costs are on a constant increase. The challenges that large enterprises deal with include:

Database sprawl created due to innumerable applications and vast amounts of data that are required to meet growing business demands

Provisioning time required for just-in-time build of a database infrastructure that is not only compliant with security policies but also is updated in monitoring & management tools.

Performance aimed to achieve minimal latency and process transactions in milliseconds.

Availability to keep running even if one or more nodes in the system fail or are temporarily disconnected from the network.

Scalability for increasing massive data volumes and transaction velocity based on requirements

Flexibility to support both transactional and analytic workloads and toward providing a comprehensive general-purpose database solution.

Security of data as well as compliance to security policies.

The solution

Wipro's DDPS 2.0, powered by Dell, specializes in providing lifecycle management and operation support of database services. It enables large enterprises to consolidate their database workloads onto a shared infrastructure to manage database sprawl. The solution comprises complete lifecycle management of the database through a self-service portal for on-demand access to database software and infrastructure, which is flexible and scalable to adequately meet the customer's growing business needs. Wipro's DDPS 2.0 supports enterprises and users to provision and manage databases just-in-time. It can speed up application releases as it

does not call for prior knowledge of hardware, database software and associated configurations. Database administrators therefore can invest their time toward strategic initiatives. Wipro's DDPS 2.0 is a robust solution as it adopts best practices for automation and standardization with the objective to simplify database deployment, management and operations.

Benefits

- **Cost reduction:** Reduction of acquisition and operating costs of databases

  - Licenses: Consolidation and effective utilization of resources (sprawl control, efficient lifecycle management)

- Reduced hardware, footprint and/or power consumption

- Enhanced productivity of database administrators allowing for focus on optimizations and innovations

- **Rapid provisioning:** Service delivery in minutes as compared to days. Business lines, database administrators or non-IT users can avail services through self-service portal thereby reducing overall time

- **Innovative pricing:** The as-a-service model makes cost predictable and apportionable to business units while ensuring improved service quality and higher customer satisfaction

- **Automation:** Enables greater efficiency and faster change delivery with greater quality and predictability

Features

Database patching	Database operation	Automation capabilities	Cloud-model experience
Enables one touch solution for database patch deployment in an efficient, automated manner	Facilitates automation of mundane and repetitive database administration tasks that take up 30-40% of a database administrator's work hours	Helps in deployment of out-of-the-box catalogues and Docker-based Kubernetes clusters, and container server farms	Provides teams managing databases on premise with an experience similar to that of managing in a public cloud.

Manage databases by leveraging automation capabilities for reduced CAPEX and OPEX, service delivery acceleration and a performance driven experience

![wipro logo] Ambitions Realized.

Wipro Limited
Doddakannelli
Sarjapur Road
Bengaluru – 560 035
India

Tel: +91 (80) 2844 0011
Fax: +91 (80) 2844 0256
wipro.com

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For more information,
please write to us at **info@wipro.com**