Power Up Your Microsoft SQL Server with Nutanix

Improve SQL Server performance and availability with transformative database services.

Microsoft SQL Server databases support many organizations' most critical workloads and applications. They are used for everything from departmental databases to business-critical workloads, including enterprise resource planning (ERP), customer relationship management (CRM), and business intelligence. As enterprises generate and store more and more operational data, they have come to rely on Microsoft SQL Server infrastructure more than ever before. Provisioning and delivering SQL Server databases as dynamic, virtualized services to meet business needs makes selecting the right database infrastructure solution essential.

Need for Speed, Scale, and Simplicity

Microsoft SQL Server database administrators (DBAs) are tasked with protecting data and ensuring critical server databases are available 24/7. To meet the demand of today's SQL Server estates, a modern database services approach is necessary. This approach should prioritize operational simplicity and scalability to meet the demand for database innovation.

Database performance has traditionally been the primary consideration when selecting infrastructure. However, today's solutions that support SQL Server workloads must also handle a dynamic mix of transactional (OLTP) and analytical (OLAP) databases, along with their unique storage I/O profiles and active data sets. In addition, both compute and storage must be able to scale easily, while maintaining performance, to accommodate new and existing SQL Server databases.

SQL Server deployments require effective database life cycle management, but many DBAs still rely on manual processes to achieve this. As a result, DBAs need rapid database provisioning processes so new applications can be quickly tested and launched.

Key Benefits

- Faster time-to-value and improved business agility
- Deploy SQL Server database infrastructure in minutes and hours, instead of days and weeks
- Decrease unplanned database downtime events by as much as 97%
- Lower the costs of SQL Server operations by 43%
- Increase database responsiveness by up to 90%
- Improve developer productivity by 16%

Nutanix Cloud Platform for Microsoft SQL Server Deployments

Whether modernizing an aging SQL Server estate or deploying a new environment, Nutanix is the ideal solution for Microsoft SQL Server deployments. Nutanix Cloud Platform (NCP) combines the simplicity, performance, scalability, and availability of hyperconverged infrastructure (HCI) with Database-as-a-Service (DBaaS) capabilities. Nutanix simplifies and accelerates the monitoring, optimization, and management of your databases, ensuring high-performance and always secure solutions.

Leverage Nutanix storage efficiencies to strengthen Microsoft SQL Server database performance.
Nutanix integrates storage drives into the distributed capacity of the cluster, tiering data based on database access patterns. This helps deliver capacity efficiency and cluster resiliency without single points of failure or bottlenecks for application-write operations to the database.

Outcomes

- 5x improvement in Microsoft SQL Server performance with 350 databases across 40+ server instances consolidated onto a single SQL Server cluster.

- Immediate 10% saving on TCO from full virtualization using Nutanix AHV hypervisor.

- 70% reduction in operational costs going forward using a single integrated tool to manage physical and virtual infrastructure.

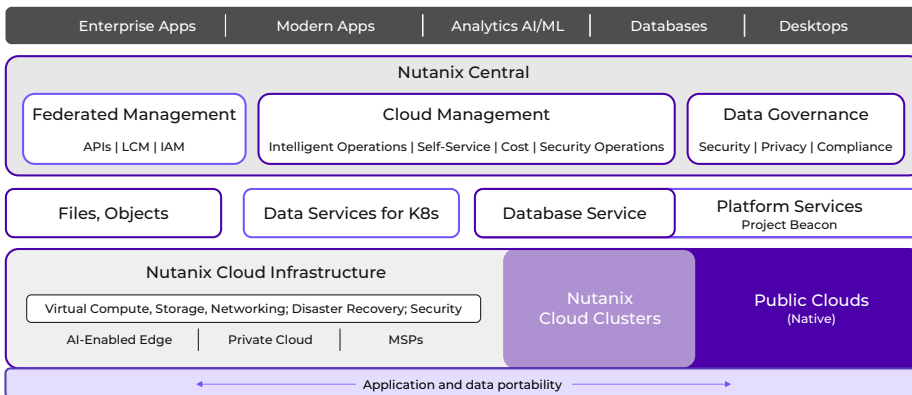- Improved security from fast routine patching of all infrastructure components.

Enterprise Apps	Modern Apps	Analytics AI/ML	Databases	Desktops

Nutanix Central

Federated Management	Cloud Management	Data Governance
APIs | LCM | IAM	Intelligent Operations | Self-Service | Cost | Security Operations	Security | Privacy | Compliance

Files, Objects	Data Services for K8s	Database Service	Platform Services Project Beacon

Nutanix Cloud Infrastructure

Virtual Compute, Storage, Networking; Disaster Recovery; Security

AI-Enabled Edge	Private Cloud	MSPs

Nutanix Cloud Clusters | **Public Clouds (Native)**

Application and data portability

Diagram 1: One platform for your entire SQL Server database estate.

Simplify Database Management with Nutanix Database Services

Nutanix Database Service (NDB) is the only DBaaS that simplifies and automates database life cycle management across on-premises and public clouds for Microsoft SQL Server, Oracle Database, PostgreSQL, MySQL, and MongoDB databases. It enables DBAs and IT professionals to manage hundreds to thousands of databases efficiently and securely to meet performance, scalability, security, high availability, disaster recovery, and cost requirements without sacrificing control or flexibility. It simplifies and secures database provisioning for agile application development.
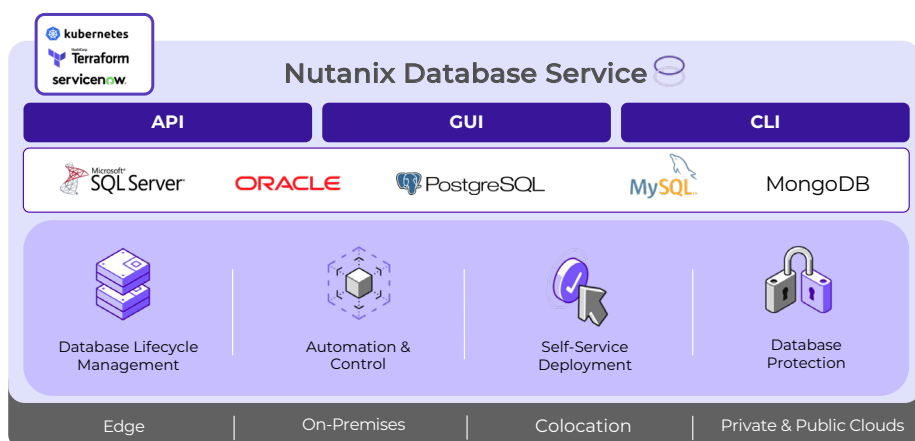

Diagram 2: Simplify database management with Nutanix Database Service

> Our initial hyperconverged solution proved unreliable and poorly supported, putting an immense strain on the IT team and affecting the business as a whole. Something had to be done and Nutanix did it, giving us what we thought we were getting in the first place and a lot more besides.
>
> Thomas Knappe,
> Head of IT Operations, Gyldendal

Accelerate Time to Value and Increase Business Agility with Nutanix Cloud Platform for SQL Server

As digital initiatives accelerate and businesses navigate an increasingly app-driven world, organizations must reassess their infrastructure options for deploying current and future Microsoft SQL Server databases. Nutanix Cloud Platform is the ideal solution that offers consistent application and SQL Server performance to satisfy stakeholders, enhance availability and security, and improve agility for business needs with less management complexity and cost.

Learn more at **www.nutanix.com/solutions/sql-server**

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