

Power Up Your Microsoft SQL Server with Nutanix

Gain SQL Server performance and availability while giving administrators their weekends back with transformative database services.

KEY BENEFITS

Nutanix delivers a solution for Microsoft SQL Server that can provide a centralized management platform that allows you to easily manage your database workloads and efficiently provide database services (DBaaS) to your organization.

- **Faster Time to Value and Business Agility:** Deploy infrastructure and databases in minutes and complex AAG clusters in hours instead of days and weeks. Deploy dev/test environments up to 10x faster and improve performance up to 5x.
- **Maximize Uptime and Security:** With native platform resiliency, slash unplanned downtime by as much as 85% with non-disruptive IT operations. In addition, get in control of security vulnerabilities with database patching.
- **Operational Efficiency and Reduced Costs:** Reduce storage costs with zero overhead snapshots and clones. Provide automation to reduce manual database operations and reduce TCO by 62%.

POWERING THE NEW ERA OF MICROSOFT SQL SERVER MANAGEMENT

Microsoft SQL Server deployments are increasingly critical to organizations. They are used in everything from departmental databases to business-critical workloads, including ERP, CRM, and BI. At the same time, we are in a data explosion, where enterprises are gathering more data and growing the SQL Server footprint faster than ever before while at the same time tasked with consolidating their datacenter footprint, controlling costs, and accelerating provisioning. These trends of delivering SQL Server databases as dynamic, virtualized services make it essential to select the right database solution.

NEED FOR SPEED, SCALE, AND SIMPLICITY

To ensure database administrators are delivering on their promise of protecting data and keeping critical SQL Server databases available while demand increases, IT must function with the concept of database services or cloudifying their databases. The expansion of the SQL Server estate requires a modern database services approach to gain operational simplicity to switch administrators from a maintenance mode operation to one that can keep up with the demand for innovation.

Database deployments need to deliver not only on the performance and availability needs of SQL Server-based workloads but DBAs must also manage the complete database lifecycle tasks in minutes to keep up with the speed of business, while remaining simple to deploy, manage, and scale.

Database performance has long been the primary criteria for selecting infrastructure. Solutions that support SQL Server workloads need to handle a dynamic mix of transactional (OLTP) and analytical (OLAP) databases, along with their unique storage I/O profiles and active data sets. Both compute and storage need to easily scale — while maintaining performance — to accommodate new and existing databases.

“Our initial hyperconverged solution proved unreliable and poorly supported, not only putting an immense strain on the IT team but 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.”

- 5x improvement in SQL Server performance
- Zero downtime since deployment of Nutanix
- 70% reduction in operational costs

– Thomas Knappe, Head of IT Operations, Gyldendal

SIMPLIFY DATABASE MANAGEMENT

- Remove complex database silos by Consolidating all types of SQL Server databases onto a single hyperconverged platform with excellent performance.
- Manage database operations and SQL Server lifecycle management across public and private cloud from a central control plane.
- Automated database services cut administration tasks by up to 87% [[Era customer blog](#)].

FAST

- Deploy SQL Server instances in minutes not days or weeks with best practice standards (including complex AAG deployments)
- Improve database performance up to 5X when consolidating multiple SQL server databases onto a single hyperconverged cluster [[Gyldendal](#)].

In addition to database performance and scaling, administrators should be able to quickly deploy SQL Server in minutes by automating and standardizing the traditionally manual database lifecycle operations from a single pane of glass. Database administrators require a modern cloud-ready database platform and services that provide users with rapid database availability so they can begin their projects without delay and run their workloads without, at the speed of business. Database administrators are freed up to focus their time on high-value tasks such as performance diagnostics and tuning, capacity planning and security.



Accelerate Dev/Test Deployments by 10X



Availability & Simplify DB Management



Improve Availability & Security

NUTANIX DATABASE SOLUTION FOR SQL SERVER

Whether modernizing an aging SQL Server estate or deploying a new environment, Nutanix is the ideal solution for SQL Server deployments. The Nutanix Database Solution combines the simplicity, performance, scalability, and availability of Hyperconverged Infrastructure design with Database-as-a-Service capabilities.

Nutanix DBaaS builds on Nutanix HCI to deliver a DBaaS environment, providing the best of both worlds for SQL Server. Nutanix provides a platform that virtualizes and brings all your database engines under one roof with one-click operations that make monitoring, optimizing and managing all your databases much simpler and faster. We then added modern cloud-ready database-as-a-service capabilities that automate and eliminate much of the administrative load. The result is a SQL Server solution that performs exceptionally well, as the business demands it, is always available, secure and extremely cost-efficient.

There are four key DBaaS pillars designed to support different production and dev/test workloads for SQL Server.

1. New database and database server provisioning
2. Copy Data Management
3. Data Protection (backup/recovery)
4. Database Patch Management

- Satisfy demanding database needs by scaling linearly in minutes without forklift upgrades.

AVAILABLE

- Prevent risky data loss with integrated self-healing capabilities.
- Keep SQL Server databases protected with one-click zero-byte clones/snapshots that recover databases in minutes.
- Non-disruptive 1-click upgrades and scaling prevent unnecessary downtime while improving functionality.

SECURE

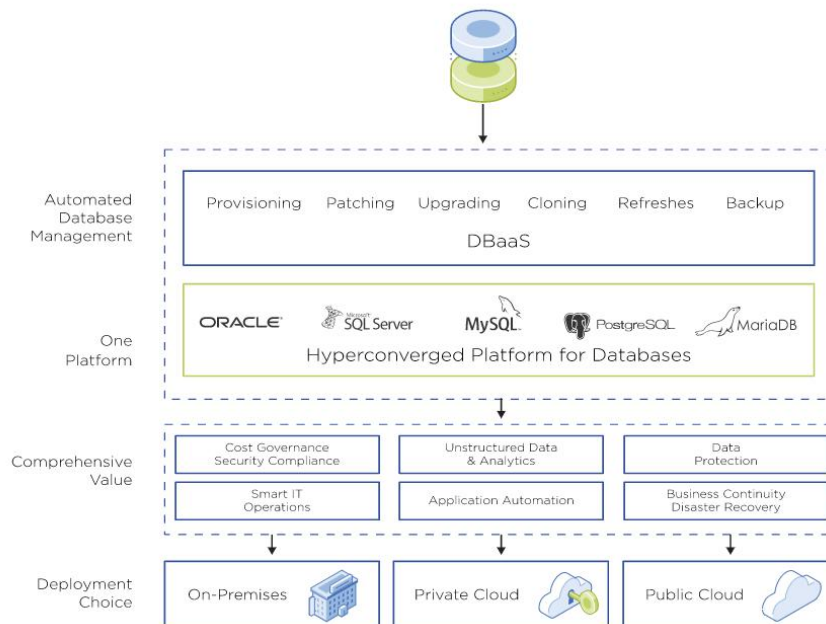
- Integrated security first design that provides encryption, key management, database masking, and the ability to automatically detect and fix vulnerabilities.
- Manage and deploy out-of-band database patching to secure against zero day vulnerabilities.
- Secure your entire database estate with native micro-segmentation.

DBA EFFICIENCY

- Improve DBA efficiency by providing Database catalog services that can be managed through RBAC to offload database lifecycle management.
- Slash storage costs by up to 6X with zero-byte cloning and snapshots.
- Invest in SQL Server optimization not administration with up to 62% operational savings [[source](#)]

Nutanix Solution for Databases

One platform for all your databases
Automated Lifecycle Management
Deployment Choice



RESOURCES AND GETTING STARTED

- [Microsoft SQL Server Best Practice Guide](#)
- [The Definitive Guide to: SQL Server Deployment on Nutanix](#)
- [Nutanix Era Solution Brief](#)
- [Turn your Database into a Service](#)



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