

eBook

Real Organizations, Real Database Challenges

Learn how these businesses and associations leveraged
Nutanix to simplify and save on their database operations.

NUTANIX



Simplify Database Management. Unlock Innovation.

Businesses of all types face critical database management challenges today. These challenges stem from the sheer number and variety of databases across on-premises datacenters and public clouds, error-prone manual database administration processes that don't scale, and inefficient legacy three-tier infrastructures. Technology leaders, DBA teams and developers need a modern and flexible solution that simplifies database management, meets cost, performance and security requirements, and enables software-driven innovation.

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RBL Bank is a digital leader in India with over 8.49 million customers and 1,631 offices.

Challenge: RBL Bank experienced a large increase in the use of digital channels by customers, which caused huge volatility in transaction volumes. Its legacy systems were hindering application and database performance. Provisioning new databases was taking too long to support rapid development of new digital services for customers.

Solution: Since adopting Nutanix Database Service (NDB), call-center applications and database performance increased 6x and login times reduced from 180 seconds to 30 seconds. Database provisioning time was cut by 90%.

“The time to provision a new database has been cut by 90%...Our DBAs spend just 30% of their time on UATs with compute and storage resources, and database copies are available in an instant...time-to-market for new services has dropped from 2-4 days to 4-6 hours.

Nimish Valia

Head of Center of Excellence, Strategic Technologies, RBL Bank

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SB Technology

SB Technology Corporation is an ICT service provider belonging to the SoftBank Group. Since its establishment in 1990, it has grown steadily, and has in recent years been focusing on Microsoft Azure-based corporate IT cloud migration and business co-creation for the new normal.

Challenge: SB Technology's EC Services Division urgently needed to streamline database deployment, automate backup, and reduce restore times. Also, given the increase in remote work with more and more people working alone, the company was looking for a database management solution that would enable personnel without advanced database skills to achieve the same results.

Solution: EC Services decided to migrate from legacy architecture to Nutanix Cloud Platform to simplify operation management and switch from the old WSFC database architecture to Microsoft SQL Server AlwaysOn Availability Groups (AG), which does not require shared storage.

“Nutanix Database Service enabled us to build new databases with one-click simplicity...one-click construction was a revolutionary change for us...It took us only two months from designing the new database system to carry out careful testing and complete construction of the product system, which is amazingly fast.

Naoki Endo

Sr. Engineer, Data Management, SB Technology Corp.

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International Retailer Harnesses HPE Greenlake with Nutanix Database Services

This large international retailer operates hundreds of stores across the globe, with high-level IT operations and datacenters for each large region managed from a single central facility.

Challenge: The retailer's database infrastructure historically relied on three-tier virtualization, which had begun to drive bloated operational costs and bog down deployment times. The existing implementation also relied on legacy AIX technologies requiring specialized skill sets that were difficult and expensive to source.

Solution: Nutanix Database Service (NDB) streamlined database administration tasks, including upgrades and patching, reduced storage-related costs, and enabled rapid, self-service database deployment by developers without needing DBA help.

“By reducing database deployment times from several weeks to a few hours, HPE GreenLake with Nutanix Database Service has driven a 2-3x reduction in total data storage needs through eliminated redundancies.

Anonymous (large global retailer)

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Established in 1979, Bahrain Islamic Bank (BisB) provides commercial banking and other services to customers throughout Bahrain. The bank is known throughout the Middle East banking sector for its innovative digital services, which require developers to have fast, easy access to reliable, high-performance databases to support application development.

Challenge: Being the sector's vanguard requires BisB to constantly invest in its IT infrastructure, which is the rock-solid foundation on which its innovations are built. A decision was made to give this environment an overhaul when it became evident that traditional physical servers and storage were no longer up to the bank's lofty performance benchmarks, and maintenance was drawing resources away from innovation.

Solution: BisB turned to Nutanix Database Service to simplify database management and to benefit from the Nutanix hybrid multicloud infrastructure, which powers the database performance and resilience the bank requires. As a result, BisB reduced the time to provision a database cluster from five days to a few hours, increased database performance by 70% and eliminated planned downtime.

“Previously, when we wanted to scale our environment, we had to add physical servers and storage - a process which required shutting down systems. With Nutanix, there's no such limitation and increasing compute or storage capacity is simply a matter of a few clicks. As a 24x7 operation that's under immense pressure to offer customers uninterrupted access to our banking services, this is a game-changer.

Ali Adel

Leader of Database Services at Bahrain Islamic Bank

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Sakra World Hospital (Sakra) in Bangalore is a multi-specialty hospital offering different branches of medicine and surgery under one roof. With its 350-bed capacity and 200-plus doctors, Sakra boasts a state-of-the-art medical facility for people living in this vibrant city, which is also the center of India's tech industry.

Challenge: Due to its legacy, three-tier infrastructure, Sakra's database servers supporting the hospital information system and electronic patient records couldn't provide data in a timely manner, leaving clinicians with a wait of 10-15 seconds when they moved between application screens. The situation reduced the number of examinations they could perform in a day. The rates of patient satisfaction were reduced by the frustration of waiting up to two minutes for their medical bills to be prepared.

Solution: Moving to a Nutanix Cloud Infrastructure has transformed the performance of Sakra's databases. Queries are answered faster, and application screens are updated in 1-2 seconds instead of 10-15.

“We've seen a huge improvement in [database performance]. It takes 30 seconds to calculate the fees, greatly improving patient satisfaction.

Bhoopendra Solanki
Head of IT Sakra World Hospital

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Semlex established in 1992, has extensive expertise in the development, integration, operational management, and delivery of biometric identification systems that cover different aspects of identification and verification.

Challenge: SEMLEX was dealing with the complexity of provisioning active-active Microsoft SQL Server AlwaysOn Availability Groups (AAG) database servers. It also encountered challenges associated with database copies and disk capacity while growing a SQL Server environment.

Solution: Nutanix Database Service (NDB) gave SEMLEX the DBaaS IT needed to simplify its complex database environment. NDB reduced dependence on other teams and provided the ability to provision new servers in a matter of minutes versus the hours it used to take.

“Nutanix Database Service helped us overcome the complexity of provisioning active-active AAG database servers and addressed the operational management challenges of database copies and disk capacity while growing a SQL Server environment...NDB performance, tuning and time-saving features are a game changer.

Simon Hoggart
IT Manager, Semlex

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The Ontario Nurses' Association (ONA) represents more than 65,000 registered nurses and healthcare professionals and 18,000 nursing student affiliates across the province. It relies on its fleet of custom-built Microsoft SQL Server databases to manage data associated with over 600 agreements, as well as historical member data.

Challenge: A network assessment revealed that ONA's infrastructure was antiquated and unable to provide the level of performance, availability, and security its SQL Server databases required. Therefore, the Union needed a new solution to balance performance and cost.

Solution: ONA chose Nutanix Cloud Infrastructure to support the full range of its workloads and services, including its SQL Server databases. Thanks to NCI, ONA's database fleet and the applications it supports, including the association's case management and member management systems are performing better than ever.

“We have seen an increase of two or three times in terms of application performance... Our applications are optimized, and since the database is performing faster, we are not hearing complaints. It cuts down on our support calls.

Kris Bhoutika
Manager of Applications Development

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A Major Healthcare Organization

This healthcare member-based not-for-profit organization has been responsible for promoting safe, competent practitioners in its industry.

Challenge: The organization relies on ten different database servers and more than 50 databases to meet its needs. However, its diverse fleet of databases and hybrid infrastructure environment proved complex, difficult to manage, and negatively impacted performance.

Solution: The organization moved to Nutanix Database Service (NDB) and Nutanix Cloud Infrastructure to enjoy the simplicity of a single control plane to manage both its infrastructure and databases, as well as to automate database administration tasks like upgrades, patching, and cloning.

“Nutanix was instrumental in enabling us to cut over to a new environment, cutting our lead time in half. Nutanix enables us to keep our databases refreshed and our environments intact. It’s a world of difference.

Information Systems Configuration Manager

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These few customer snapshots highlight the multiple benefits derived from Nutanix Database Service. The benefits include minimized costs, risks and inefficiencies of database operations. Take a test drive today to experience the simplicity, performance and efficiency with database-as-a-service on your terms. www.nutanix.com/test-ndb

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