IBM Netezza Performance Server for IBM Cloud Pak for Data as a Service

Modernize and monetize your data with cloud enterprise data warehousing

Highlights

Utilize granular elastic scaling with predictable costs

Benefit from load-and-go simplicity when accessing your data

Achieve superior performance at a lower cost

Bring analytics to your data with in-database capabilities

Unlock the value of your data and enable AI at scale in the cloud
Organizations today are increasingly looking at public clouds as a key enabler for executing on their enterprise data warehouse (EDW) modernization strategy. Cloud-based data warehouses provide the ability to reassign EDW management responsibility to the vendor while ensuring business users can get immediate and secure access to the data they need. The ability to elastically scale while also lowering total cost of ownership are additional key motivators driving organizations' decisions to shift to the cloud.

IBM® Netezza® Performance Server for IBM Cloud Pak® for Data as a Service provides a high-performance, cloud native data warehouse that brings simplicity, speed and scale to data reporting and analytics. With granular elastic scaling and pause and resume functionality, Netezza Performance Server offers you cost and resource control at a massive enterprise scale. Combined with in-database analytics and patented parallel processing technology for faster queries, Netezza accelerates innovation and growth through reliable and secure data access. With upgrades and migrations from existing cloud, IBM PureData System for Analytics and IBM Cloud Pak for Data System deployments, it's easy to modernize at your own pace.

IBM **Cloud**

Scale and compute independent of storage with granular elastic scaling
Cloud-based data warehouse solutions can offer faster, easier scalability than on-premises environments. You can start with a short-term proof of concept and then scale up to match the requirements of the project when it goes live. With Netezza Performance Server, achieve your ideal balance of performance to storage with granular elastic scaling. Choose from available Netezza contours and specify your performance requirements in micro-increments to use only what you need to, when you need to.

Elastic scaling handles both planned and unplanned spikes in data warehouse requests or demand for computing power and helps accommodate these short-term needs while continuing to meet service-level agreements (SLAs) for downstream applications. Elastic computing also enables elastic pricing—you can scale up and down while only paying for what you use. The Netezza Performance Server is a cloud-based data warehouse that can be brought up and taken down with minimal investment in time and resources. Netezza provides you with the ability to move to the public cloud or augment your on-premises Netezza Performance Server for IBM Cloud Pak for Data System environment with data marts. For example, you can add cloud-based data warehousing resources for those few days each quarter when your regional offices need to run financial analyses.

Easily access and manage your data in the cloud
Netezza Performance Server is a fully managed service, you have no overhead, no indexing, no tuning and automated maintenance. This zero-management approach means no armies of administrators are required, which helps your teams stay focused on other important tasks besides keeping your data warehouse up and running. It's as easy as deciding how fast you want to go and how much data you need. Upgrading is also made easy with single command nz_migrate or a nz_backup and nz_restore which allow for easy migration anywhere—on premises, on cloud or as a hybrid solution. Netezza Performance Server can coexist with existing IBM PureData® System for Analytics solutions while you upgrade at your own pace to modernize your journey to cloud or hybrid, so you can deploy your warehouse how you need it.

Achieve superior performance and price
As a data warehouse, Netezza Performance Server supports large-scale business intelligence functions and centralizes data from a variety of data sources to create a single source of truth. This helps to quickly provide data to the queries of downstream applications, as well as provide in-warehouse analytics. Optimized for these queries, Netezza Performance Server delivers unparalleled performance advantages over other options on the market. These advantages come from Netezza's unique asymmetric massively parallel processing (AMPP) using patented hybrid columnar acceleration assist. Netezza Performance Server leverages state-of-the-art hardware technologies in the public cloud while minimizing data movement. This enables analytics workloads that can support thousands of users and process data at considerable speeds.

Bring analytics to your data with a modern EDW and analytics platform

A cloud data warehouse is fast, elastic and can scale to near infinite capacity. IBM has built Netezza Performance Server on the Cloud to take those benefits to the next level. Built-in automation and auto-recovery provides a highly available and fault-tolerant Netezza deployment with minimal human touch, ensuring your data warehouse can run 24x7.

Netezza Performance Server uses an extremely powerful and comprehensive in-database analytics package that provides several SQL routines sufficient for handling most machine learning (ML) steps. There are also additions that allow the user to execute custom ML code directly inside the database through simple Python function calls. In addition, Netezza Performance Server supports all major programming languages including C, R, Java, and Python. This enables data scientists and analyst teams to build models that operate on data, predict and score directly inside the database instead of having to offload the data to a separate environment and deal with the associated preprocessing and transformations. There is flexibility as users are not constrained in terms of what to execute or their speed inside the database.

A high-performance source for your data fabric

A data fabric supports better use of data as an enterprise asset by providing access to the right data at the right time, regardless of where the data is stored. Netezza Performance Server provides a reliable and scalable source to IBM's data fabric architecture, making it easy to connect with governance, privacy and analytics applications. Netezza acts as part of the persistence layer, providing a fast, highly available data store for fabric and analytics applications to query as needed, with little risk of delay or downtime.

Conclusion

Meet enterprise needs with a highly reliable, best-in-class data warehouse that provides built-in advanced analytics, cost predictability and easy connection and integration to your data fabric architecture tools. Netezza scales with you and provides performance and cost savings so you can access and use your data efficiently and effectively.

Why IBM?

IBM provides the most comprehensive portfolio of data warehousing, information management and data and AI software, hardware and solutions. This helps clients maximize the value of their information assets and discover new insights to make better and faster decisions and optimize their business outcomes.

For more information

Try out Netezza Performance Server for IBM Cloud Pak for Data as a Service today. Visit cloud.ibm.com/nzsaas/create to get started.

To learn more about IBM Netezza Performance Server, please contact your IBM representative or IBM Business Partner, or visit ibm.com/products/Netezza

IBM

IBM.