

# IBM Netezza Performance Server

The cloud data warehouse built for unified analytics and AI, available across the hybrid cloud



## Highlights

Control costs at scale with AI-infused elastic scaling

Access and manage your data easily with fully managed capabilities

Unify your data across hybrid cloud for analytics and AI

Bring high performance and resiliency to your data in the cloud

In the era of rapidly expanding data volumes, varieties and complexities, organizations face the challenge of managing the costs associated with running their warehouses for mission-critical workloads. At the same time, the sense of urgency has never been higher for businesses to use AI for competitive advantage. When it comes to the next generation of analytic and AI workloads, organizations require a data warehouse that can support unified analytics and AI across deployments, provide cost-predictability and control, and reduce governance and compliance risk.

IBM® Netezza® Performance Server is the advanced cloud-native data warehouse that's designed to operationalize high-performance analytics and AI across the hybrid cloud. With support for open formats, the Netezza solution empowers you to run complex queries with minimum data movement. It seamlessly integrates with the IBM watsonx.data™ data store, built on an open data lakehouse architecture, so you can optimize analytics and AI workloads across all your data from a single point of entry while reducing your costs. And with AI-infused elastic scaling, IBM Netezza Performance Server offers you efficiency and cost predictability at scale in the cloud. It's now available as a fully managed service on AWS and Azure.



### **Control costs at scale with AI-infused elastic scaling**

With IBM Netezza Performance Server, achieve your ideal balance of performance to storage with AI-infused elastic scaling.

- Our AI workload analysis model output can be used to predict and schedule scaling based upon workload needs. Choose from available Netezza contours and specify your performance requirements in micro-increments to use only what you need, when you need it.
- Netezza cloud elastic computing also enables granular elastic pricing—you can scale up and down while only paying for what you use—no t-shirt sizes. IBM Netezza Performance Server as a Service can help clients achieve up to 47% lower licensing costs, as well as up to 78% faster performance compared to major cloud data warehouse competitors.<sup>1</sup>
- 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. IBM Netezza Performance Server is a cloud-based data warehouse that can be brought up and taken down with minimal investment in time and resources.

### **Access and manage your data easily with fully managed capabilities**

With IBM Netezza Performance Server as 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 and risk-free with single command `nz_migrate` or a `nz_backup` and `nz_restore`, which allows frictionless upgrades—on premises, on cloud or as a hybrid solution, providing a seamless on-ramp to cloud.

IBM Netezza Performance Server is now available as a service on Amazon Web Services (AWS) and Azure, bringing trusted, price-performant analytics to your data in the cloud with fully managed service capabilities. Organizations can accelerate their data modernization strategy in the cloud by combining the elasticity and governance of IBM Netezza Performance Server for analytics workloads with the scale, agility and cost efficiency of the cloud. The Netezza solution provides you with the ability to move to the public cloud or augment your on-premises IBM Netezza Performance Server for IBM Cloud Pak® for Data System environment.

## Unify your data across hybrid cloud for analytics and AI

The Netezza platform makes data unified, accessible and scalable in the cloud to accelerate decision-making and innovation across your organization.

- It empowers data engineers, data scientists and data analysts to share data and run complex queries across any data type with support for open formats, such as Parquet and Apache Iceberg.
- Netezza Cloud Pak for Data System on-premises and SaaS on AWS and Azure integrate with watsonx.data open data lakehouse, enabling you to now run analytics and AI workloads on all your governed data at scale across hybrid cloud from a single point of entry. You can use fit-for-purpose query engines, such as Presto and Apache Spark, that optimize workloads for all data types while reducing data warehouse costs.
- Data scientists and analyst teams can also execute custom machine learning (ML) code and models that operate on data in place and predict and score directly inside the database. Use governed data from the Netezza solution to build, train, tune and deploy your own ML models. IBM Netezza Performance Server supports all major programming languages, including Python, C, C++, R, Lua and Java.

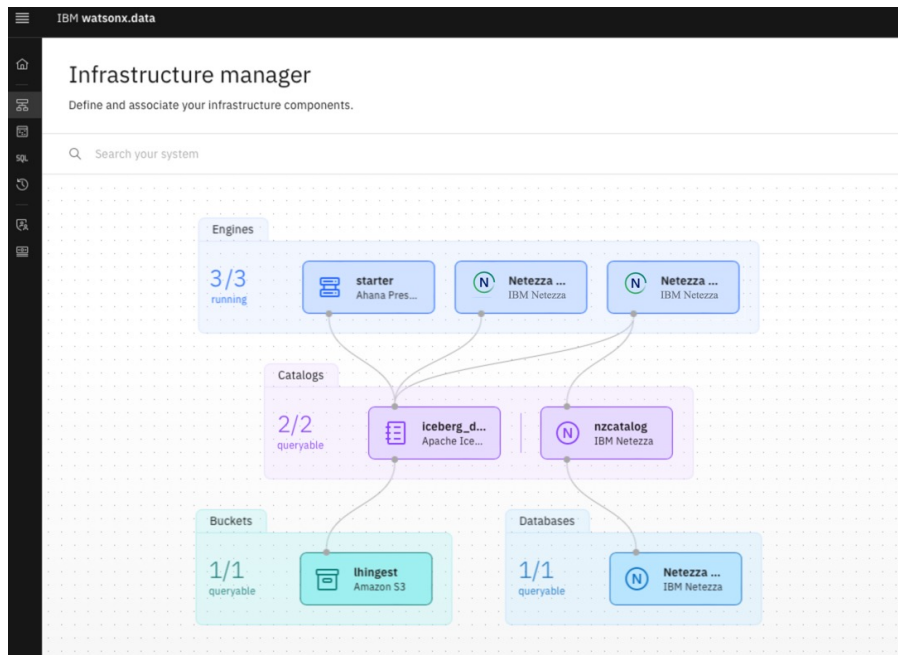


Figure 1. Optimize analytics and AI workloads on all your governed data with Netezza and watsonx.data integration

## Bring high performance and resiliency to your data in the cloud

A cloud data warehouse is fast, elastic and can scale to near infinite capacity. IBM Netezza Performance Server has been built as a fully managed service to take those benefits to the next level. The Netezza patented massively parallel processing technology enables faster queries and analytics workloads that can support thousands of users. Run complex queries in an optimized way, improving time to insight and decision speed from days to minutes. It eliminates the need to deal with the additional overhead associated with data preprocessing and transformations for faster insights and brings analytics to your data with rich built-in analytics and geospatial capabilities.

IBM Netezza Performance Server as a Service features multiple layers of resiliency with managed computation, highly available storage and cross-cloud replication. Built-in automation and auto-recovery provides a highly available and fault-tolerant Netezza deployment with minimal human touch to help ensure your data warehouse can run 24x7.

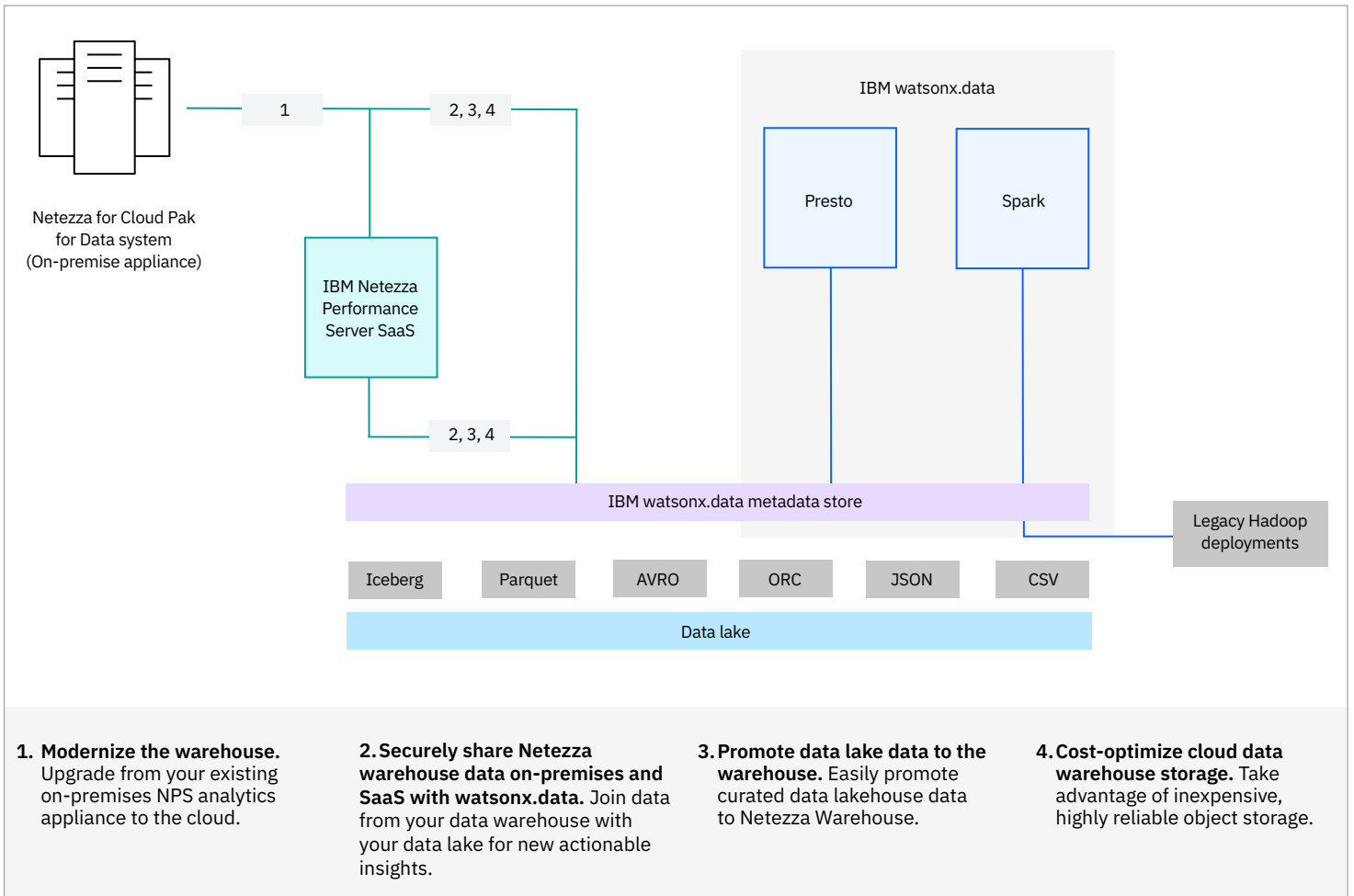


Figure 2. The integrated IBM watsonx.data and Netezza ecosystem for maximum workload coverage and optimal price-performance

**Conclusion**

IBM Netezza Performance Server scales with you and provides performance and cost savings so you can access and use your data efficiently and effectively for new analytics and AI use cases. For existing clients, IBM takes the guesswork out of deploying the Netezza solution as a fully managed service on AWS or Azure with a single `nz_migrate` command.

**Why IBM?**

IBM is a leading global hybrid cloud and AI, and business services provider, helping clients in more than 175 countries capitalize on insights from their data, streamline business processes, reduce costs and gain the competitive edge in their industries. All of this is backed by IBM's legendary commitment to trust, transparency, responsibility, inclusivity, and service. For more information, visit [ibm.com](https://www.ibm.com).

**For more information**

Try out IBM Netezza Performance Server as a Service for free today. Visit <https://cloud.ibm.com/registration?uucid=08b38e6a4526cce1> to get started with USD 1,000 in free credits.

To learn more about IBM Netezza Performance Server, contact your IBM representative or IBM Business Partner or visit [ibm.com/products/netezza](https://www.ibm.com/products/netezza).

1. Total Value of Ownership (TVO) Assessment Highlighting Advantages of IBM Netezza Performance Server as a Service (NPSaaS) over Snowflake, a Cabot Partners Group report sponsored by IBM, March 2022.

© Copyright IBM Corporation 2023

IBM Corporation  
New Orchard Road  
Armonk, NY 10504

Produced in the  
United States of America  
July 2023

IBM, the IBM logo, IBM Cloud, IBM Cloud Pak, Netezza, and watsonx.data are trademarks or registered trademarks of International Business Machines Corporation, in the United States and/or other countries. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on [ibm.com/trademark](https://ibm.com/trademark).

Java and all Java-based trademarks and logos are trademarks or registered trademarks of Oracle and/or its affiliates.

This document is current as of the initial date of publication and may be changed by IBM at any time. Not all offerings are available in every country in which IBM operates.

It is the user's responsibility to evaluate and verify the operation of any other products or programs with IBM products and programs.

THE INFORMATION IN THIS DOCUMENT IS PROVIDED "AS IS" WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND ANY WARRANTY OR CONDITION OF NON-INFRINGEMENT.

IBM products are warranted according to the terms and conditions of the agreements under which they are provided.

