Cognitive, Analytics and Data Management with Linux on IBM z14

Insights in milliseconds?

Companies are always looking for new ways to get customer insights faster and outthink their competition. That's why it's important to effuse analytics anywhere, in the processes, in the technologies, in the way the people engage. And in addition to that an infrastructure is needed that really can handle all types of data in real-time.

And rather than moving data around, which is not only tremendously high in cost, but also actually drives performance degradation, you want to keep the analytics as close to the data as possible, so that you can apply the analytics in the context of a real-time client engagement.

The Linux solution portfolio allows to select the solution that fit your business needs, and the IBM® z14™ (z14) models (M01, M02, M03, M04, M05, ZR1) have not only the horse power speed to drive faster insights, but also to provide the capacity to run the analytics next to the data.

Put your enterprise data to work

Enterprise data continues to be a primary and critical data source, which need to be integrated with other non-relational data, structured and unstructured information, for powerful, real-time insights to help you outthink your competition.

IBM Z® servers can help organizations gain analytics agility and minimize cost and complexity by accessing enterprise data 'in-place' with minimal data duplication or data movement.

IBM Z can provide a holistic view of all data by integrating the data with minimal to no impact on transactional systems, and by running analytics at the most optimal location—next to the data.

This helps to speed data-driven innovation and increase your business' ability to respond.

Further, z14 supports you in improving the quality of your data models by cutting data preparation time that allows for repeated model creation against more current data volumes, and keeping data within the secure IBM Z platform helps you to protect sensitive data used for your analytics.

Based on the performance, security, flexibility and business resiliency capabilities of IBM Z, Linux® on IBM Z allows for fast analytics with secure access to your enterprise data.

Cognitive & Analytics

Predictive analytics brings together advanced analytics capabilities spanning ad-hoc statistical analysis, predictive modeling, data mining, text analytics, entity analytics, optimization, real-time scoring and machine learning. IBM offers a comprehensive portfolio to address these topics.

IBM SPSS® software offers advanced techniques in an easy-to-use package to help you find new opportunities, improve efficiency and minimize risk. **IBM SPSS Modeler** brings predictive intelligence to decisions made by individuals, groups, systems and the enterprise. **IBM SPSS Statistics** addresses the entire analytical process, from planning to data collection to analysis, reporting and deployment.

IBM Cognos® empowers business users to create and personalize dashboards and reports on their own - while providing IT with a proven and scalable solution. **IBM Cognos Business Intelligence** acts on fact-based insights gained from integrated dashboards, scorecards, reporting, analysis and mobile BI capabilities.

Planning Analytics Local (formerly **Cognos TM1**) can deliver the speed, agility and foresight you need to steer business performance.
Watson Analytics Analytical Components help to aggregate and analyze massive amounts of information. Analysts can transform unstructured data into insights through visualizations that reveal trends, patterns, anomalies, and relationships.

Apache Spark, Elasticsearch, Apache Solr are popular open source solutions, a few examples of what is available with Linux on Z.

These cognitive and analytics solutions help to discover patterns and trends in your data so you can go beyond knowing what has happened to anticipating what is likely to happen.

Data management

Data management helps to manage data across multiple workloads, while reducing development, administration, storage and server costs. IBM's solutions deliver trusted information.

IBM Db2® with BLU Acceleration is the database of choice for enterprise-wide solutions, providing industry-leading performance for multi-workloads. The BLU Acceleration in-memory technology enables breakthrough performance by delivering actionable insights; seamlessly integrated in DB2.

IBM Informix® is a fast and scalable database server that manages traditional relational, object-relational, and dimensional databases.

IBM Cloudant® is an enterprise-grade fully managed NoSQL database, stores data in JSON format, common for mobile data, enabling users to save time by storing data natively in the system, without the need to first convert it to a different language.

Oracle Database is ideal for Linux on Z deployments that need to support high volume online transaction processing and query intensive data warehousing applications.

Cassandra, CouchDB, Mongo DB, PostgreSQL are a few examples of the available open source solutions for Linux on Z.

Db2 Connect™ provides connectivity to databases from Linux. You can connect to Db2 databases on the z/OS® and z/VSE®; and to databases that are compliant to the Distributed Relational Database Architecture™ (DRDA®).

The **InfoSphere®** platform provides all the foundational building blocks. **InfoSphere Information Server** helps organizations to understand, cleanse and transform trusted information and deliver it to their business initiatives. **InfoSphere Master Data Management** helps operational business processes, big data, and analytics through trusted views.

These data management solutions help to organize, administer and govern your structured and unstructured data, and by which its accessibility, reliability, and timeliness.

Summary

The solution portfolio for Linux on Z allows you to create analytics and data serving solutions to solve your needs.

In addition, with the z14 models you can benefit from improved compute capabilities, greater levels of scalability, security and efficiency, and the capacity to run analytics next to the data.

The result? Insights – with no data movement.

ZSF03201-USEN-02