

Data Warehouse Hardware Upgrade

Evaluate Alternatives And Justify Hardware Upgrades

Data warehouses use SMP, MPP and cluster architectures where SQL requests are processed by many CPUs and disks in parallel. While planning a configuration upgrade, the challenge is to make educated decisions about the number of nodes, number of CPUs-per-node, CPU speed and memory size as well as about the type of storage and the number of disks-per-node needed to support a growing number of users, increased volumes of data and new applications.

You also have to make important decisions about the logical or virtual configuration affecting the level of parallelism and the effectiveness of usage resources. In a parallel processing environment, the response time for a request depends on the time to process it on the slowest (usually the most over-utilized) node. Therefore, hardware configuration planning for systems with mixed types of devices brings the challenge of balancing the physical and virtual configurations.

Different business processes require different levels of services, and the challenge of justifying the hardware upgrade is to find the minimum configuration capable of providing consistently satisfactory levels of response time and throughput for the most critical lines of business.

Leverage The Industry Experts

Performance management experts from BEZ Systems will evaluate different hardware configuration alternatives and help you justify the hardware upgrade required to support expected workload and database size growth levels. BEZ software will be used during this project to predict the impact of the expected growth so you can identify the minimum hardware configuration required to efficiently support growing business needs.

The *Data Warehouse Hardware Upgrade ProService Pak* will help you to optimize the use of hardware and improve return-on-investment for data warehouse infrastructure. This 30-day engagement will help you reduce the risk of performance surprises and ensure the consistent delivery of acceptable service levels for each business workload. BEZ will provide you with a report summarizing the results of the analysis and the capacity planning recommendations.

ProService Paks from BEZ Systems

BEZ provides the expertise to help you implement best practices for ensuring results. We offer our Strategic Performance Management methodology to help you implement best practices for efficiently upgrading data warehouse infrastructure. Services are available in the form of “Paks”, which are pre-defined service offerings that assist customers in the implementation and roll out of BEZ solutions.

You can harness the power of BEZ technology and swiftly take advantage of the robust features of BEZ software. Each ProService Pak focuses on the customer's specific needs and offers clear deliverables.

Customer Responsibilities

The *Data Warehouse Hardware Upgrade ProService Pak* requires the assistance of a DBA during the product installation. You provide a dedicated PC and your DBA performs the initial setup of the BEZ software, with assistance from BEZ.

You also provide your workload and database growth assumptions, and the hardware alternatives you would like evaluated. Since most of the service will be provided from BEZ headquarters, we will require remote access to the local PC running BEZ software.

Services To Be Performed by BEZ

A BEZ expert will conduct the initial interview to understand your environment and your business and technical challenges, identify key participants and document the assumptions for the engagement. The BEZ professional services engineer will also explain the process and deliverables to your team. BEZ will support product installation and collect measurement data during one week, and then perform workload characterization and forecasting and build a model.

A performance expert from BEZ will predict the impact of the expected growth, compare the impact of different options and recommend the type, size and timing for upgrades. BEZ will recommend a process of validating the impact of the upgrade, and present a report summarizing the results and recommendations of the performance evaluation and capacity planning.

About BEZ Systems

BEZ Systems is the leading provider of predictive performance management solutions. Companies with large database applications, such as data warehouses, rely on BEZ software and BEZ ProService Paks to help them consistently deliver expected service levels to business users. BEZ software delivers the ability for IT to look ahead and proactively plan and manage resources and data so they can focus on satisfying the most critical business requirements. In this way, BEZ software complements the many existing database performance monitoring and tuning technologies used by IT to react to problems.