Elastic Scaling Servers™ (ES2)

Scientel IT Corp.

Introduction: Automation technology has advanced to the point where we are generating data faster than we can capture, store, manage and analyze it. These high Volumes of Data arrives in Various Varieties at Varying Velocities from Various Venues (the V's of Big Data). The need to derive insights from data has become a requirement for most organizations. While it's difficult for some to deal with, it is counter-productive not to save it and also may be dangerous not to analyze and/or Visualize it. Many of modern systems fail to keep up with the influx of this data that puts organizations at risk of falling behind. Big Data is also classified as any data that is beyond the recipient's ability to deal with it. Thus many organizations face Big Data despite the size of their systems. The solution to this problem lies in one type of product called scaling servers™. These ultra-powerful systems can capture and store vast amounts of data in real-time and crunch, group and reduce it for smaller platforms so to be able to Visualize it quickly and efficiently. Few businesses have discovered this new secret so to be able to implement it. At the same time, not performing routine analytics puts businesses in serious jeopardy.

Scalable Servers: The secret to processing large amounts of data can be complicated. Each server can process only so much data. When we process the right amount of data in each server, they perform fast enough. So when the data exceeds the server's ability to process it, the data needs to be divided among more processors for parallelized processing. Scaling is the process in which data is divided among few servers to process it in parallel thereby reducing the processing time. However, this is a very complicated process and many systems employ a programmed scaling system, where each processing node is added programmatically in a rather complicated manner. Thus some of these systems tend to be costly, typically offering only a few number of nodes such as a dozen, and they do not scale right out of the box and thus require third party software; hence only scalable. Scientel employs a linear scaling technology where the system is already set up to expand and scale to 1000's of nodes given that there are available resources ready for rapid deployment.

Elastic Scaling Server (ES2): Scientel technology allows for a faster adjustment of the number of processors required in order to increase or decrease the number of nodes for a given process based on the load, the required speed, volume and variety of data. Scientel also supports the development of single applications that can process different data sets on different nodes based on the analytic requirements that are demanded by users while still in parallel mode.

Meaningful and Resourceful Analytics: - from Scientel

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