## The Trend of Hardware

In last few years, storage, processor, and network technologies have made a great breakthrough. A growing set of new hardware, architecture, and features are becoming the foundation of the future computing platforms. These trends indicate that these techniques are significantly changed the underlying environment of traditional data management and analysis systems, including high-performance processors and hardware accelerators.

## Advanced, pervasive, and invisible analytics

Embedded systems only added to the crush of structured and unstructured data already filling company databases. The amount and variety of data is demand more advanced analytics than are previously available.

## Cloud/client computing

Cloud is the new style of elastically scalable, self-service computing, and both internal applications and external applications are built on this new style while network and bandwidth costs may continue to favor apps that use the intelligence and storage of the client device effectively, coordination and management is based in the cloud.

## Software-defined applications and infrastructure

Expanding the digital environment to include the entire physical world require flexibility something existing hardware-controlled networks don't have. Software-defined networks, storage, data centers, and security is required to make it all work.

## Web-scale IT

Organizations started incorporating global-class computing into the company setting. "The first step is DevOps -- bringing development and operations together in a coordinated way to drive rapid, continuous incremental development of applications and services.

## Risk-based security and self-protection

Security positioning through risk assessments is a more realistic goal Perimeters and firewalls are no longer enough; every app needs to be self-aware and self-protecting.

## Big Data Analytics

Big data analytics is a trend that has grown over the past few years, and this is something that is now being implemented in almost every kind of industry that makes use of large-scale production processes and manufacturing and supply. Big data analytics allows brands to process their information in a better manner and enables them to reach a much better understanding of the areas they need to develop.

References:

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