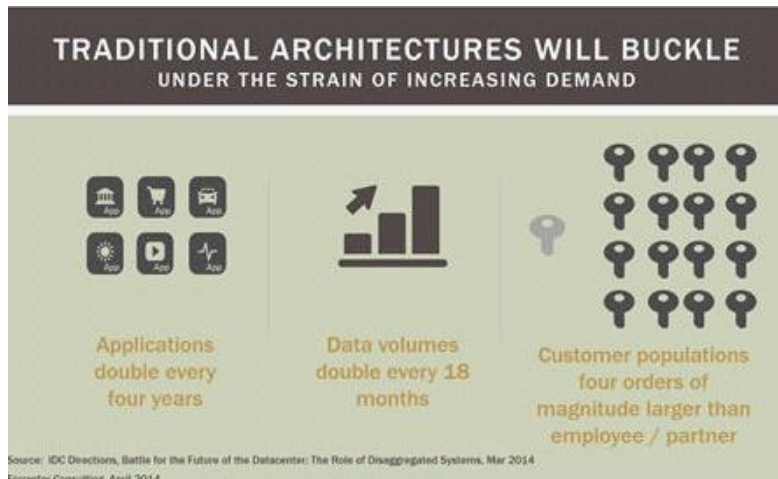




# Is Your Infrastructure Ready for the IoT Onslaught?

The Internet of Things (IoT) market is undergoing explosive growth with no slowdown on the horizon. IoT startups are everywhere and, consequently, IoT solutions that range from school bus safety to exploring the stars are rampant. And no matter how it's sliced, this evolution is resulting in copious amounts of data that most companies are unprepared to assimilate and analyze. The agile, flexible and secure cloud, with its ability to bring to fruition the full value of IoT products and services, is perfectly suited to be the backbone of any IoT integration solution.

Vernon Turner, SrVP of Research at IDC was recently quoted as saying, "Enterprises will have to address every IT discipline to effectively balance the deluge of data from devices that are [connected] to the corporate network. In addition, IoT will drive tough organizational structure changes in companies to allow innovation to be transparent to everyone, while creating new competitive business models and products."



In order to address the exponential explosion of IoT, many enterprises are developing a plan to migrate key workloads like IoT Big Data and Analytics from their existing data centers to the cloud. Cloud services are a great solution to keep up with the data coming in as well as ensuring the expected 24/7 availability of IoT applications. As an added benefit, migrating data centers into the cloud is a cost-effective way to create the necessary redundancy for reliable fault tolerance and elasticity to expand and contract as needed.

Cloud services also allows companies to efficiently support the IoT by having the flexibility to respond with just-in-time provisioning, scaling as demand increases and decreases. Cloud-based IoT resources can be integrated with the Private Cloud infrastructure creating a strategic Hybrid deployment.

**“By 2020 more than 90% of all IoT data will be hosted on service provider platforms as cloud computing reduces the complexity of supporting IoT ‘Data Blending’”.**

**- IDC Report: Worldwide IoT Predictions for 2015**

Integrating a Private data center with the Public cloud creates an extensible infrastructure. As long as the proper security precautions are implemented, this approach can be as secure as any private data center, while delivering on all of the public cloud benefits. Creating a Hybrid cloud results not only in the ability to deploy IoT applications when and where they are needed, but can also create the redundancy necessary for fault tolerance and disaster recovery.

When combining innovative cloud data center resources and security controls, ranging from network and application security to legal governance, with improved fault tolerance, application availability and economies of scale, Cloud services delivers game-changing, cost-effective solutions ideal for the expanding demand and management of continuously increasing IoT data, applications, and end user devices.