Hyperscale Data Centers Market Shares, Strategies, And Forecasts, Worldwide, 2017 To 2023

Hyperscale Data Centers Report enhances the decision making capabilities and helps to create an effective counter strategies to gain competitive advantage

Orbis Research

SUITE 600, DALLAS, TEXAS, UNITED STATES, January 24, 2017 /EINPresswire.com/ -- Description

Worldwide Hyperscale Data Center Market implement cloud computing with shared resource and foolproof security systems that protect the integrity of corporate data. Cloud data centers are poised to achieve explosive growth as they replace enterprise web server farms with cloud computing and with cloud 2.0 automated process computing. The implementation of secure large computing capability inside data center buildings provides economies of scale not matched by current state of the art enterprise data center standalone server technology.

Building size cloud 2.0 computer implementations feature simplicity of design achievable only with scale. These data centers implement cloud 2.0 in a move that works better than much of the current cloud computing. The cloud 2.0 data centers have been reduced to two types of components, an ASIC server: single chip servers and a network based on a matching ASIC switch. Data centers are implemented with a software controller for that ASIC server and switch infrastructure.

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The major driving factors for Cloud 2.0 mega data center market are cost benefit, growing colocation services, need for data consolidation, and cloud. Amazon (AWS), Microsoft, Google, and Facebook data centers are in a class by themselves, they have functioning fully automatic, self-healing, networked mega datacenters that operate at fiber optic speeds to create a fabric that can access any node in any particular data center because there are multiple pathways to

every node. In this manner, they automate applications integration for any data in the mega data center.

Cloud 2.0 mega data centers are different from ordinary cloud computing. Mega datacenter networks deliver unprecedented speed at the scale of entire buildings. They are built for modularity. They are constantly upgraded to meet the insatiable bandwidth demands of the latest generation of servers. They are managed for availability.

According to Susan Eustis, “The mega data centers have stepped in to do the job of automated process in the data center, increasing compute capacity efficiently by simplifying the processing task into two simple component parts that can scale on demand. The added benefit of automated application integration brings massive savings to the IT budget, replacing manual process for application integration.”

The only way to realign enterprise data center cost structures is to automate infrastructure management and orchestration. Mega data centers automate server and connectivity management. Cisco UCS Director illustrates software that automates everything beyond. Cisco UCS automates switching and storage, along with hypervisor, operating system, and virtual machine provisioning.

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As IT relies more on virtualization and cloud mega data center computing, the physical infrastructure is flexible and agile enough to support the virtual infrastructure. Comprehensive infrastructure management and orchestration is essential. The enterprise data centers and many cloud infrastructure operations all have similar problems of being mired in administrative expense. This presents a problem for those tasked with running companies.

The Internet has grown by a factor of 100 over the past 10 years. To accommodate that growth, hyperscale data centers have evolved to provide processing at scale, known as cloud computing. Facebook for one, has increased the corporate data center compute capacity by a factor of 1,000. To meet future demands on the Internet over the next 10 years, the company needs to increase capacity by the same amount again. Nobody really knows how to get there.

Key Topics:

Hyperscale Data Center
Scale
Automation
Cloud Computing
Cloud 2.0
Automatic Rules

Push-Button Actions
Cloud Application Integration
Container Control System
Open Source Container
Bare Metal To Container
Controllers
Kubernetes Defacto Standard
Container Management
System
Global IP Traffic
Mega Data Center
Google Kubernetes Defacto
Standard Container
Digital Data Expanding
Exponentially
Colocation Shared
Infrastructure
Power and Data Center Fault
Tolerance
100 Gbps Adoption
Data Center Architectures
High-Performance Cloud
Computing
Core Routing Platform
Datacenter Metrics
Mega Data Center Fabric
Implementation
Digital Data
Open Source Container
Control System
Defacto Standard Container
Management System
Co-Location, and Social
Media Cloud
Biggest Data Centers
Cloud 2.0
Intelligent Cloud Segment

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