

IT Infrastructure - Creating Golden Opportunities for CSPs and MSPs

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The Data-Driven World





34 billion connected devises by 2020

45 Zettabytes of data by 2020

33%+ data will pass through the cloud

by 2020

The Data Advantage



Big Data At Caesars Ente

A Once Billion Dollar Asset?

The most valuable of the individual collected over the last 17 years thround Total Rewards loyalty program, which reputation as a pioneer in Big Data-o

customer service. Total Rewards is **estimated to be** worth over \$1 billion.





The New York Times

What Wal-Mart Knows About Customer's

What does this mean to Cloud Service Providers?

ata and found that the stores would ducts -- and not just the usual flashlights. ast that strawberry Pop-Tarts increase as their normal sales rate, ahead of a

numcane, ws. pulman said in a recent interview. "And the prehurricane **top-selling item was beer."**







The Data Advantage





IBM Systems - Designed for the Data-Driven World

... at cloud scale for every industry

Cognitive Systems

Leadership in data-intensive workloads – deployed in all clouds.



Flash and Software Defined Storage

Leadership in high-speed data performance and agility for the multi-cloud.



IBM Z and LinuxONE

Leadership in secure blockchain transactions and instant payments

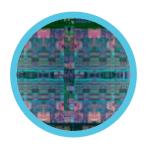




Power Systems are designed for Cognitive

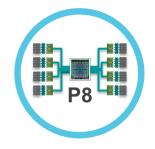
Power high-performance core, bandwidth, accelerator differentiation

As a compute-intensive workload, accelerators are key to Cognitive/AI economics



High Performance Cores

>2X vs. Intel



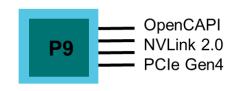
Fast & Large Memory System

4-5X Memory Bandwidth 3X Cache vs. Intel



Fast PowerAccel Interconnects for Accelerators

NVLink 1.0 5x vs. Intel



Faster PowerAccel Interconnect for Accelerators

OpenCAPI / NVLink 2.0 7-10x vs. Intel

Power partnerships with accelerator industry players: Nvidia GPU, Xilinx, AMD GPU, open to other options



Award-Winning IBM Storage Portfolio

Backup, Archive & Cloud

Backup

Spectrum

Protect

VM Data Avallability



Spectrum



Archive

Archive



Management & Cloud

Monitoring & Control

Spectrum

Container & VM APIs

Spectrum



Spectrum



Spectrum





BM Spectrum Virtualize for **Public Cloud**

Cluster Virtualization

High-Performance Computing

IBM

Spectrum





High-

New-Gen Workloads



IBM. Spectrum

Infrastructure



Networking

IBM Storage Leadership



LEADER

in 2016 & 2017, IDC and Gartner named IBM "leaders" in 8 reports #1

In Archiving, Mainframe Storage and branded Tape #1

in Analytics

IBM Global Financing is the #1 IT financier in the world

Financing available for select storage products

#2

IBM: the number 2 storage company in the world

19 of 20

of world's top banks by assets use IBM DS storage system solutions for availability, performance, and reliability 87%

of the Fortune Global 100 use IBM Spectrum Storage

Note: IBM named a "Leader" by Gartner, IDC, or both in 2016 or 2017 in markets served by IBM Spectrum Protect, IBM FlashSystem, IBM Spectrum Scale, DS8880, IBM Cloud Object Storage, Storwize and XIV

IBM Z and LinuxONE – Delivering Trusted Digital Experience for Computer Services Industry

Offer Pervasive encryption as the new standard in security

Differentiate by offering unique value

Drive towards leaner operational efficiencies while meeting difficult SLA's



Pervasive Encryption is the New Standard



Machine Learning
Illuminates Deeper Insights



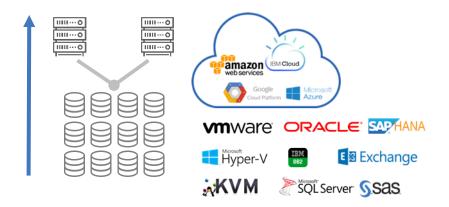
Open Enterprise Cloud to Extend,
Connect and Innovate

How You Move Forward



IBM.

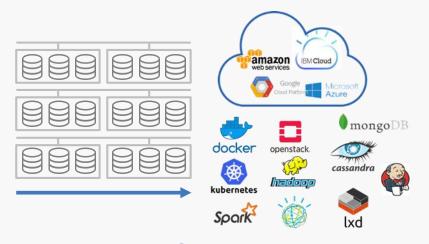
Traditional Application Workloads



MODERNIZE

Optimize and drive efficiencies, while continuing to deliver high levels of service delivery

New Generation Application Workloads



TRANSFORM

Deliver and operate new hybrid cloud application infrastructure to support new Cognitive and agile workloads



Illuminating a path to simplicity, efficiency and performance

99.999%

availability and encryption meets even the most challenging client needs

2X

storage performance of spinning disks at same price point offers a key selling point

Delivers

highly secure, available services that help clients comply with industry regulations



"Working with IBM and Ciber, we've tapped into new markets across the country, adding 75 percent to our customer base."

- Tom Prosia, Senior VP Marketing and Business Development, LightEdge



Delighting business customers with first-rate private and hybrid cloud services

Increases

internal operational efficiency facilitating more competitive pricing

Fulfills

varied customer needs, with flexible, scalable infrastructure

Offers

non-stop reliability and security for datadriven, privacy-conscious industries

claranet

"IBM Storage enables us to drive down our internal costs, giving us savings that we can pass onto our clients in the form of competitive prices."

—Gilles Gatineau, CoreInfrastructure Architect forSystems and Storage, Claranet



Ensures that client data is always in safe hands

40%

saving on total cost of ownership for backup solution, enabling competitive pricing

Supports

greater service continuity for enhanced client satisfaction

Provides

a basis for a backup-as-a-service offering, helping HPS reach new customers

HIGH PERFORMANCE

"In choosing the IBM and Cristie solution, we decreased the TCO for backups by around 40 percent, a saving that helps us keep our prices competitive."

—Stefan Ledenstam, CEO, High Performance Systems



Thank You!

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 - Personalized solution demos
- Explore IBM Systems solutions
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- 3 MSP Hub discover helpful resources
 - Visit: www.themsphub.com

