OPENSHIFT®

by Red Hat®

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Industry Analysis

Data Growth (Exabytes) vs. Worldwide Data Center Spending ($USB Billions)

Left axis	Right axis
40000	300
30000	256
20000	211
10000	167
0	122

X-axis: 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020

— IDC - Storage Capacity (Exabytes)
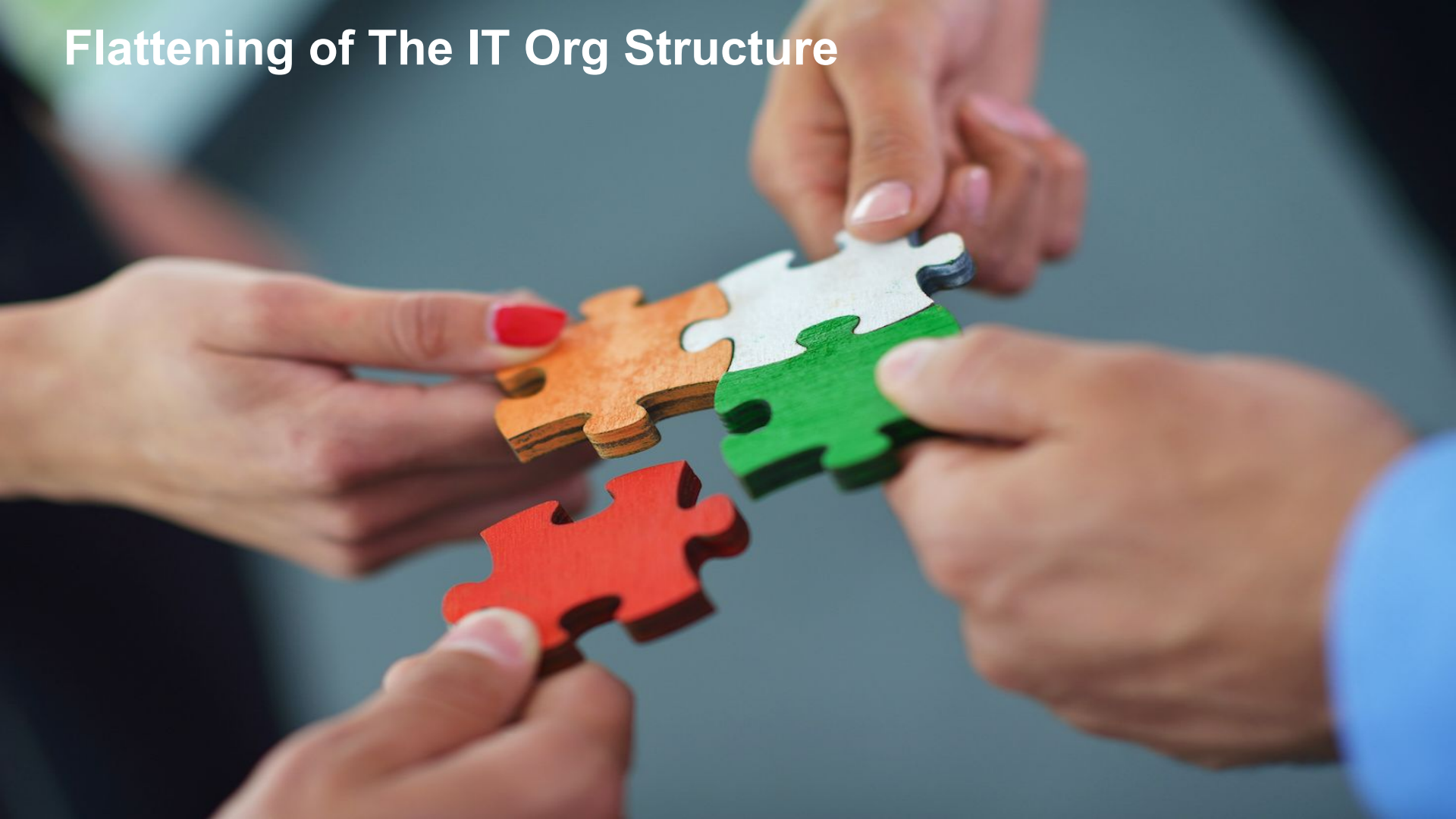— Gartner - Data Center Systems Spending ($USB Billions)
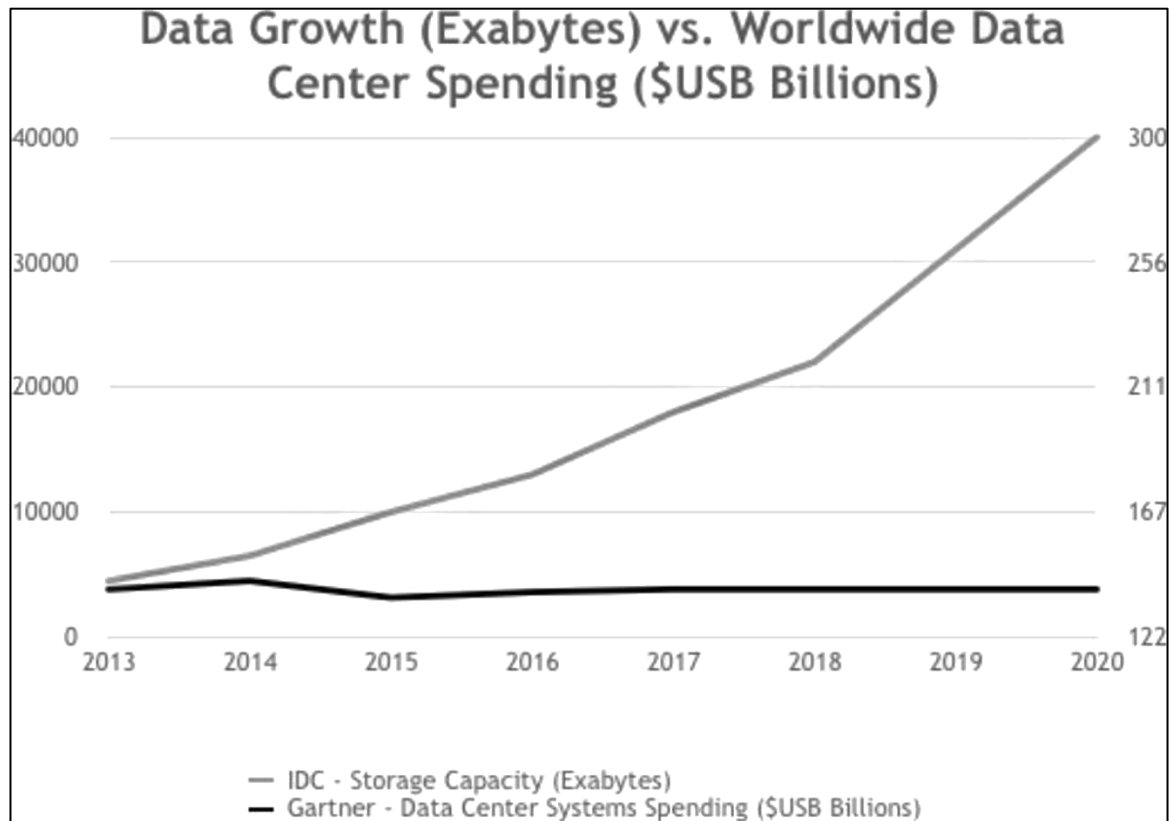
* Field survey conducted by ActualTech Media of more than 1,200 IT professionals with regard to their thoughts around Software-defined storage (SDS) and Human-computer interaction (HCI).

Focus On Customer Service

Flattening of The IT Org Structure

Rethinking CAPEX and OPEX

Client References

Customer Wins

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Business Challenges

- Need to match traveler's reservation requests to various providers' inventory (airlines, hotels, etc.)

- Dealing with constant updates from provider systems all over the world

- Must deliver high consistency and fast response times

- Managing very high request volumes of up to ~210,000 queries per second at peak

Key Benefits

- Application-centric deployments, deploying the application as a whole with all of its dependencies.

- Automated scheduling across the cluster, decoupling 'what should run' from 'where it should run'

- Able to support different types of applications, not limited to HTTP or stateless services

- Improved operational model and greater efficiency

Customer Wins

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Business Challenges

- Customers want more on-demand enterprise web & mobile apps

- Needed faster time to market for new CA SaaS offerings

- Wanted a common platform for multiple product teams to build apps on

Key Benefits

- Enables product teams to more quickly build, deploy and update apps

- Able to experiment and take apps from concept to production faster

- Containers provide better utilization of hardware and horizontal scaling

Customer Wins

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Business Challenges

- Cisco IT organization has to support thousand of application developers

- Built out large virtualization farm to provide developer environments (over 15,000 JVMs deployed)

- Needed to improve developer productivity and expand access to new languages/frameworks

Key Benefits

- Automated provisioning for developers via new Lightweight Application Environment (LAE)

- Able to offer standardized stacks for different languages including Java and Node.js

- Containers provide better infrastructure utilization and easier to manage operationally

Customer Wins

PAYCHEX®

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Business Challenges

- Company plays both in HR and Finance industries and is constantly challenged to innovate

- Heterogeneous Environment - ability to run Weblogic and Spring applications

- Unattended automated release process - platform must also be able to recover to a known stable state

Key Benefits

- Consistency between environments - code pushed to other environments react the same way

- Developer Path to Innovation - enabled developers to make changes, in a consistent manner.

- Empowered developers to do what they needed to do without requiring IT Ops engagement.

- Higher application density with the same hardware resources

Customer Wins

THE UNIVERSITY of NORTH CAROLINA at CHAPEL HILL

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Business Challenges

- 29,000 Students and 11,000 Staff

- Needed a comprehensive, dynamic solution for frequent provisioning requests and, in particular, managed servers

- Use of outside vendors would potentially increase security concerns, costs, and further complicate system administration

Key Benefits

- Open, self-service development and hosting environment for a more innovative campus community

- Ability to focus on development tasks and content—not infrastructure management

- Provide students and staff members with self-service, on-demand application stacks

Customer Wins

University of Technology in Sydney

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Business Challenges

- 39,000 Students and 3,110 Staff

- The IT department was experiencing service bottlenecks and wasted resources in three different areas:
  - student experience
  - virtual machines
  - legacy data

Key Benefits

- Standardization and automation of development and operations (DevOps) processes

- Support for many coding languages and frameworks

- Reduced waste and costs with the ability to share many applications on the same infrastructure

- Users wouldn't need to modify existing applications to suit the new environment

Customer Wins

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Business Challenges

- Highly competitive retail online market

- Needed to increase performance and flexibility of the application architecture

- Hybrid Cloud Environment - infrastructure should run both on premises and on the cloud

Key Benefits

- Monolithic to microservices - highly flexible microservices architecture for developers and operations

- Automated provisioning and management of the platform stack - needed to meet growing business demand for new application services

- Loosely coupled components enabled better utilization and management of assets.

Customer Wins

T· ·Systems· · ·

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Business Challenges

- Capturing new growth areas focusing on platform based products, "productized" services, and a cloud ecosystem.

- Build a software platform to upgrade customers' legacy software for business applications in the cloud.

- Reduce costs and provide flexibility for programming languages, frameworks, and runtime environments.

Key Benefits

- OpenShift was able to offer T-Systems' customers their choice of development and integration tools.

- Faster application delivery and deliver solutions in days instead of months.

- Strength in the container management layers

- Integration of their predominant middleware deployments and their new cloud platform.

Customer Wins

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Business Challenges

- Deliver safe, reliable, mission critical products to the market though a complex system of checks and balances.

- Foster innovation and entrepreneurial efforts from within a large 170,000 person company

- Be able to execute ideas with IT and supplier management in a scalable way

Key Benefits

- Able to streamline modern web application creation and development.

- Extend the life of legacy software by either migrating them or incorporating them into a web application

- Reduce costs and increase ROA

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