

Data Center Trends Leading to Hyperconvergence



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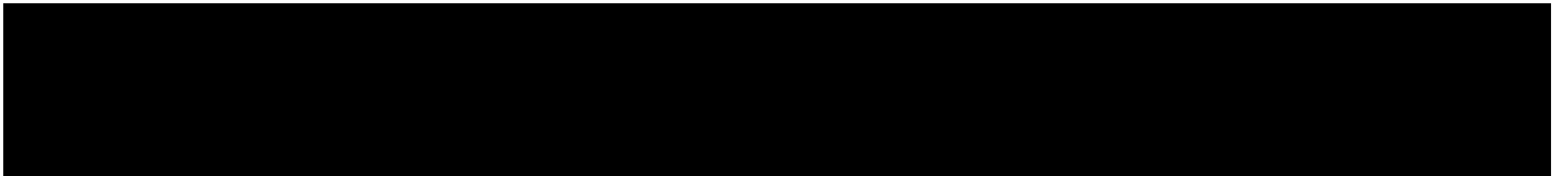
About the Speakers



Scott D. Lowe, vExpert
Partner and Co-Founder
ActualTech Media

Seth Knox
VP of Product Marketing
Atlantis

Vision of the future



IT is Changing... and it Must

- ◆ Modern computing power continues to increase exponentially
- ◆ What is possible today wasn't possible just a few years ago
 - ◆ i.e. Virtual Storage Appliances

Simplification is the New Black

- ◆ Continuously rising number and variety of devices
 - ◆ IT's role continues to expand
 - ◆ Resources do not
- ◆ Reductions are necessary
 - ◆ Service levels will not reduce
 - ◆ Budgets and staffing will
 - ◆ Spiceworks: 52% experience either a flat budget or a decrease even as 56% report business revenue increases

Simplification is the New Black

- ◆ Need to reduce variety of equipment
 - ◆ Even as we support more in quantity
- ◆ Vendors need to mask complexity to improve simplicity
 - ◆ This is more complex than it first appears
- ◆ Vendors will play a more important role than ever before

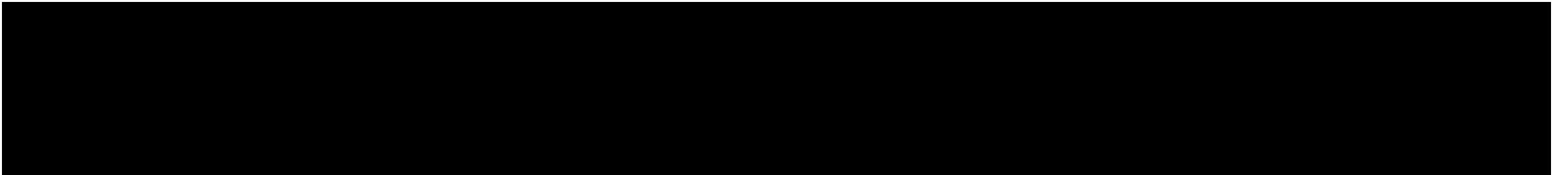
Enabling Technologies

- ◆ Flash storage
- ◆ Intel
- ◆ Software defined storage
- ◆ Hyperconverged infrastructure
- ◆ Cloud computing, but...

Organizational Changes

- ◆ Flattening of the IT organization
 - ◆ Elimination of silos
- ◆ A move from CapEx to OpEx
 - ◆ Consumption-based IT economic model

Data Center Evolution



Modern Datacenter History

- ◆ The rise of the monolithic SAN
 - ◆ Physical servers: Islands of trapped resources, especially at scale
 - ◆ Solution: Pool all of the storage on a single device and use a fabric to connect it to servers
 - ◆ Enabled new kinds of data efficiency
- ◆ Quickly became the norm

Modern Datacenter History

- ◆ The virtualization of compute
 - ◆ Same challenge as storage, but with regard to CPU and RAM
 - ◆ Led to the rise of x86-based virtualization
 - ◆ Enabled a whole host of benefits, from workload management to data protection; reduced hardware and operating costs

Modern Datacenter History

- ◆ The no-spin zone: The move from disk to flash
- ◆ The fall of the monolithic SAN

Convergence and Cloud

- ◆ Emergence of convergence
 - ◆ Combine previously disparate data center resources
 - ◆ Aimed to help support
 - ◆ Simplicity
 - ◆ Flattening of IT
 - ◆ Easier troubleshooting

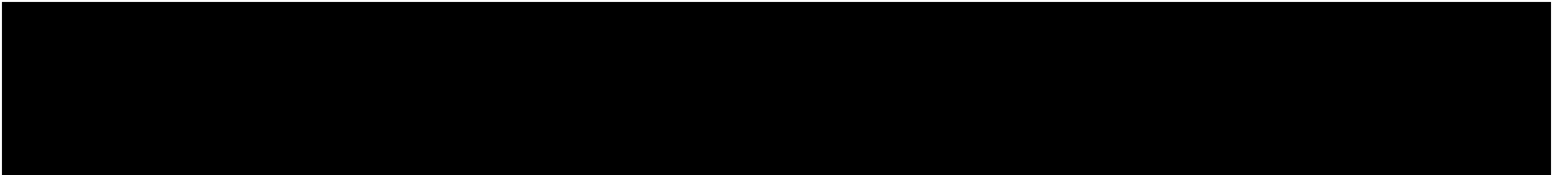
Convergence and Cloud

- ◆ Convergence types
 - ◆ Big metal convergence/SKU convergence
 - ◆ Hyperconverged infrastructure

How the Cloud Fits

- ◆ Cloud has great potential
 - ◆ Hampered by technical challenges
 - ◆ Initially, incredible economics
 - ◆ Eventual scale/cost challenges

Emerging DataCenter Trends



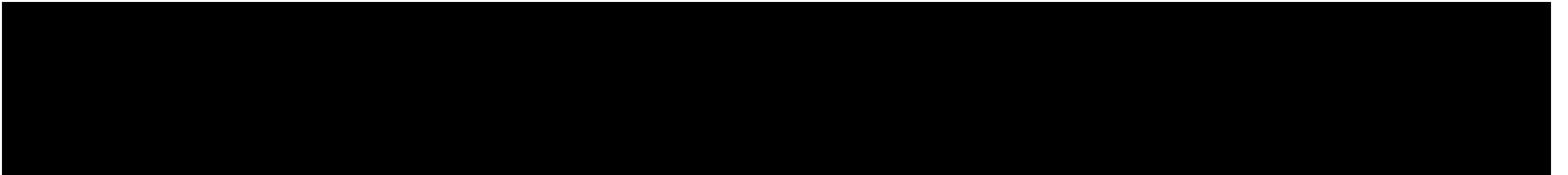
The Rise of Software

- ◆ Commoditization of hardware
- ◆ The shift to software-defined compute, networking, storage

SDS and Hyperconverged: Compare and Contrast

- ◆ Basic definition of SDS
- ◆ Basic definition of Hyper-converged Infrastructure
- ◆ The relationship between the two
- ◆ The role of solid state in SDS and Hyper-convergence

Modern IT Business Needs



Risk Mitigation

- ◆ Assurance, resilience, business continuity, disaster recovery
- ◆ The regulatory landscape
- ◆ Avoiding lock-in (hypervisor, storage, server)
- ◆ Changing the perception of IT
- ◆ Availability

- ◆ Changing budgetary landscape
- ◆ The changing career landscape

Agility and Speed

- ◆ Automation and orchestration
- ◆ Self service
- ◆ The data growth challenge

Take Our Survey!

Help us understand your thinking around software defined storage and hyperconverged infrastructure

<http://sgiz.mobi/s3/19b823f442a9>

Prize Giveaway