

Conference 2018





Making Higher Education IT Infrastructure Invisible



Making Higher EducationIT Infrastructure Invisible

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NUTANIX: THE ENTERPRISE CLOUD COMPANY

Make datacenter infrastructure and clouds invisible, elevating IT to focus on applications and services

8,800+ customers 140+ countries 3,000+ employees

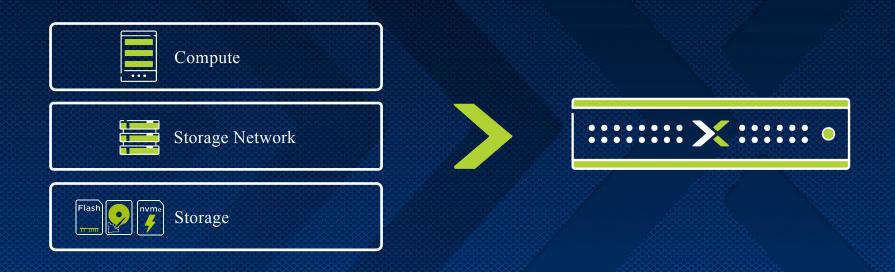
Founded 2009
Nasdaq NTNX 2016
Revenue +\$1Billion

Goldman Sachs

"NUTANIX IS A ONCE-IN-A-DECADE INFRASTRUCTURE STORY"

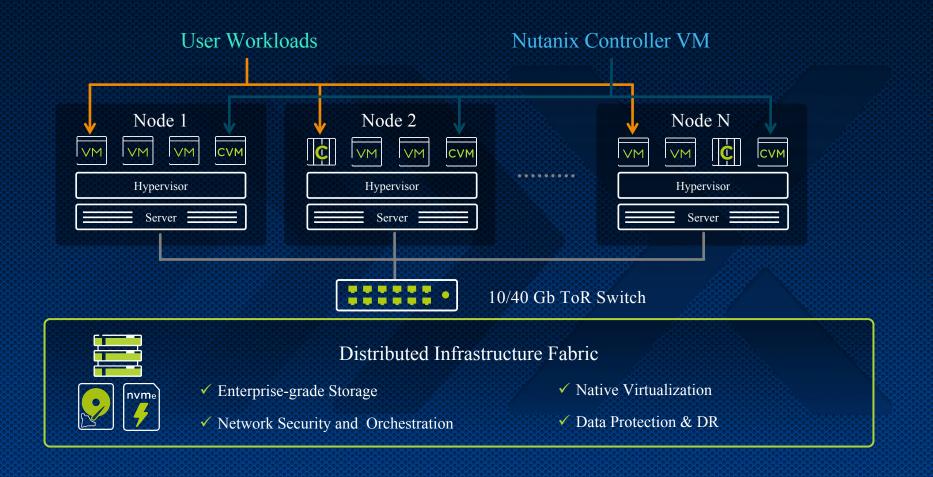


Foundation for Enterprise Cloud = Hyperconvergence



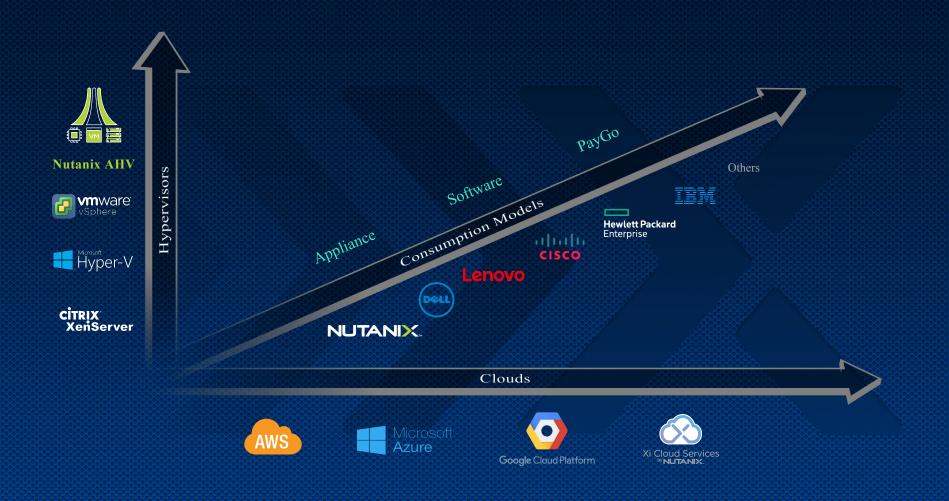


SCALABLE, DISTRIBUTED SYSTEM DESIGN





FLEXIBILITY TO CHOOSE





- IDC Survey Comparing Nutanix to 3-Tier Architecture









Another 32 nodes of @nutanix deployed today.

Rack -> Stack -> Deploy -> Lunch #hci

#webscale



"Before Nutanix,
3hour installs, 3min lunches

"After Nutanix,
3min installs, 3hour lunches"





INDUSTRY LEADING SUPPORT







Gartner Magic Quadrant for Hyperconverged Infrastructure 2018



Strengths

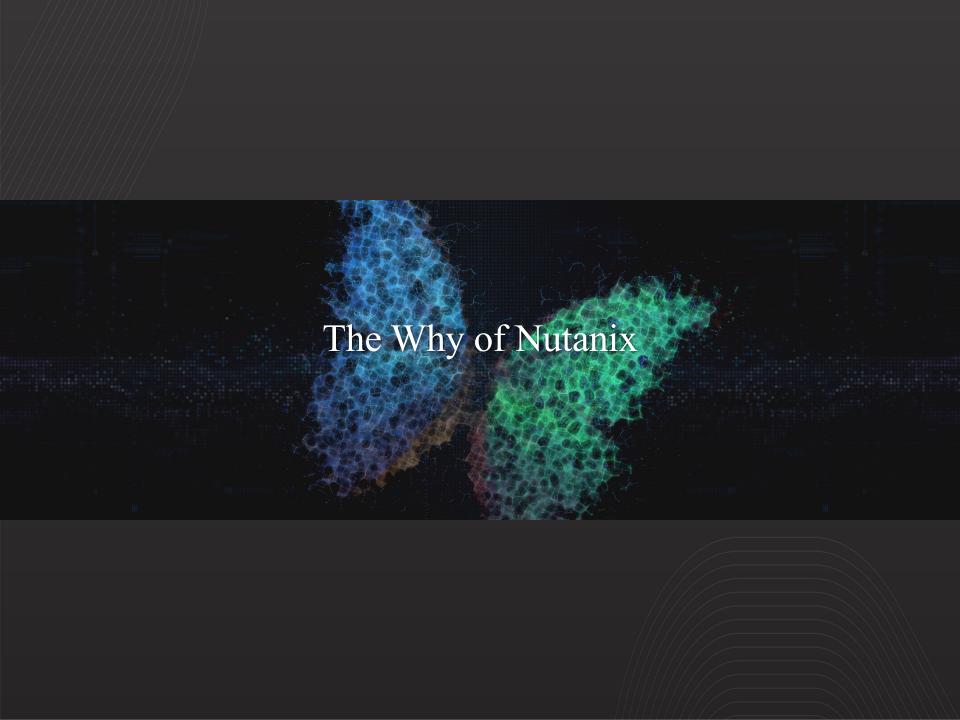


"Highly innovative and scalable architecture that is generationally advanced compared with most rivals."

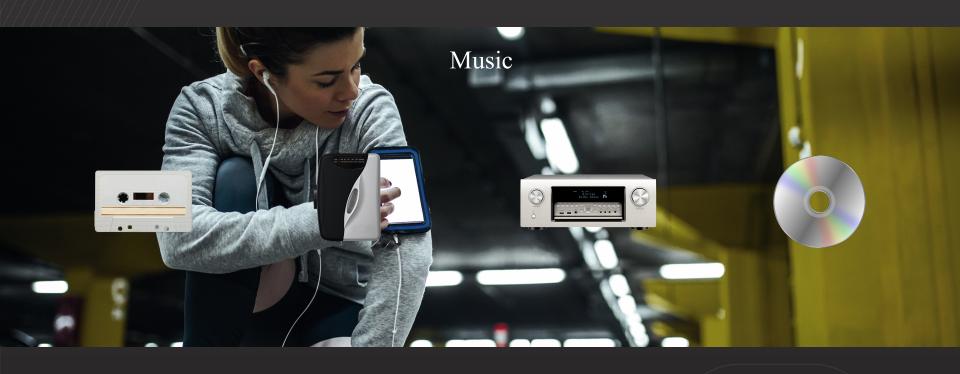
"Flexibility in hypervisor choice with growing adoption of AHV, based on KVM, as customers seek a lower-cost alternative to VMware ESXi."

"Proven user acceptance and high customer satisfaction, resulting in repeat sales and high node counts (100+) in large global enterprise accounts."













Increasingly Invisible Infrastructure



Hardware-agnostic Operating Systems



Software-Definedeverything



At-the-tip-of-the Finger Self-service



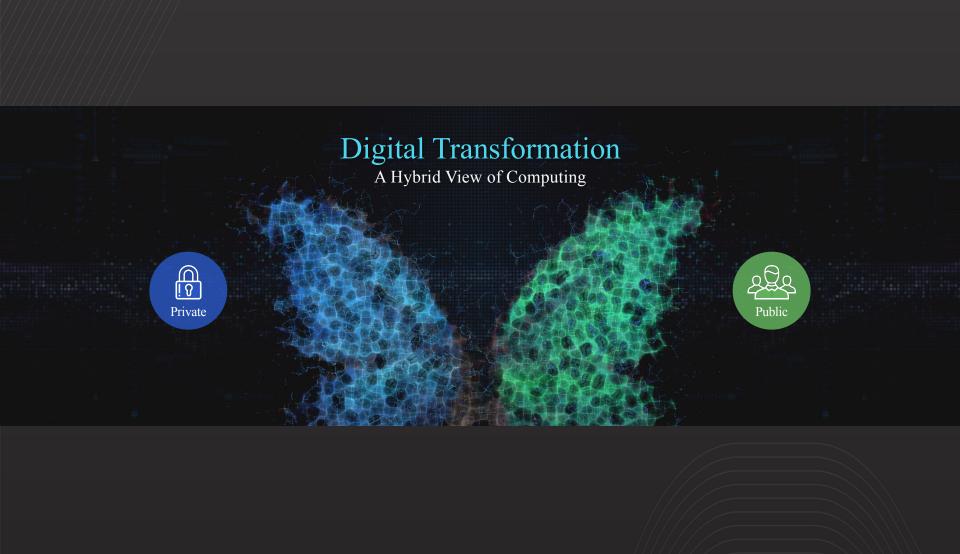
Breach-safe Culture



Locationagnostic Clouds



Always-on Philosophy







THE ERA OF CLOUD IS UPON US...





PUBLIC CLOUD HAS RESET IT EXPECTATIONS

infrastructure management.



regular basis.



NOT A SINGLE CLOUD ANYMORE



- Scalable and elastic
- Cloud-native applications



- Predictable and secure
- Performance sensitive
- Mission-critical applications

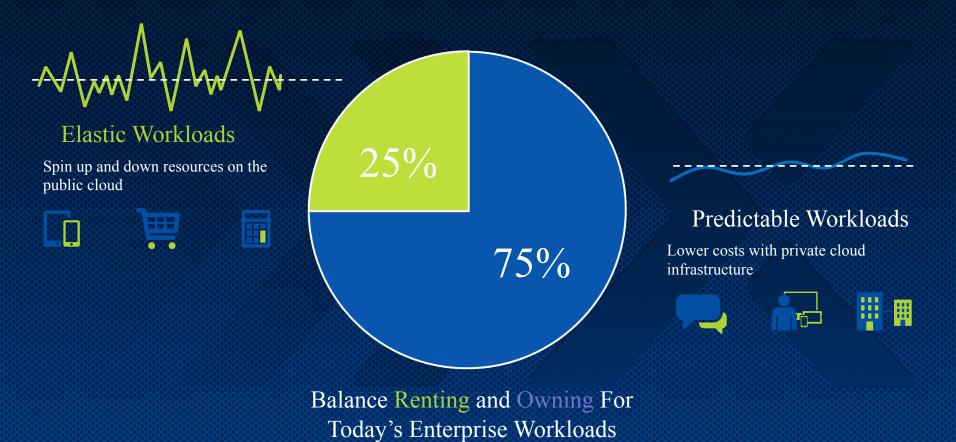


CONVERGING CLOUDS





RENTING VERSUS OWNING





Comparing Private & Public Cloud

- Overall, hybrid cloud is the new norm
- The future of IT is hybrid/multicloud
- One of the biggest challenges facing organizations is deciding where to deploy their application/workloads
- For highly elastic workloads, public cloud is preferred
- For highly predictable workloads with long life span, on-premises private cloud is preferred
- Most of the workloads in enterprise datacenters (e.g., exchange, VDI, databases, and active directory)...are predictable workloads





White Paper

TCO Analysis Comparing Private and Public Cloud Solutions for Running Enterprise Workloads Using the 5Cs Framework

Sponsored by: Nutanix

Ritu Jyoti August 2017

IDC OPINION

The world of IT and the datacenter remains in the midst of a massive structural shift built on a foundation of mobile, social, big data, and cloud services. At the highest level, the two types of deployment models for cloud services are public and private:

- Public cloud services are shared among unrelated enterprises and consumers, open to a largely unrestricted universe of potential users, and designed for a market, not a single enterprise.
- Private cloud services are shared within a single enterprise or an extended enterprise, with restrictions on access and level of resource dedication, and definedioontrolled by the enterprise (and beyond the control available in public cloud offerings) – they can be onsite or offsite and can be managed by a third party or in-house staff.

IDC's 2016 CloudView Survey, covering over 6,000 IT organizations around the world, revealed that 62.7% of the respondents are either already using or planning to use public cloud infrastructure as a service (laa5) for their infrastructure needs. For organizations undertaking digital transformation at the business level, cloud isn't just about picking a service delivery model such as public or private cloud. They must complete the shift to a predominantly cloud-based IT environment in the next few years, but one of the most important elements in this shift will be to extend the value of mission-critical applications through cloud enablement products and services. Businesses are looking to transform their IT services to a cloud services model to enable rapid time to market for their applications, support continuous product innovation, have simple infrastructure management, and pay for only what they use – all these without losing control over their data.

It's increasingly evident that this shift to cloud-based IT is having a tremendous impact on all areas of IT infrastructure purchasing and usage behavior for compute, storage, and network resources. It is radically altering distribution of IT spending across various deployment segments, including public cloud, off-premises private cloud, on-premises private cloud, and noncloud environments.

As per IDC's Worldwide Quarterly Cloud Infrastructure Tracker, April 2017, the portion of total spending on IT infrastructure hardware used to support private and public cloud deployments will increase from 37% in 2016 to 54% in 2021 and will account for all of the overall growth in IT infrastructure spend during that period (see Figure 1).

August 2017, IDC #US42986717





Nutanix Higher Education Customers











































Darrell Hicks

IT Manager

Strategic Projects



Martin Fedec Infrastructure Analyst



Selkirk College

Challenges

- Aging Infrastructure
- Staff Expertise
- Consistency in deployments
- Disaster Recovery and Resiliency

What we were looking for

- Simplify our core infrastructure platform
- Easy Scalability
- Low overhead Set it and forget it!
- Short Learning Curve



What we ended up with

- 2 Nutanix Clusters
- Running Acropolis Hypervisor (AHV)
- Acropolis Ultimate Licensing
- Redundant 10 Gb Tor Switches

Why we went with AHV

- Common UI for cluster and VM management
- Simple Cluster Expansion
- One Click Upgrades
- Ability to migrate VMs from ESXi or Hyper-V
- Simple Self Service Portal

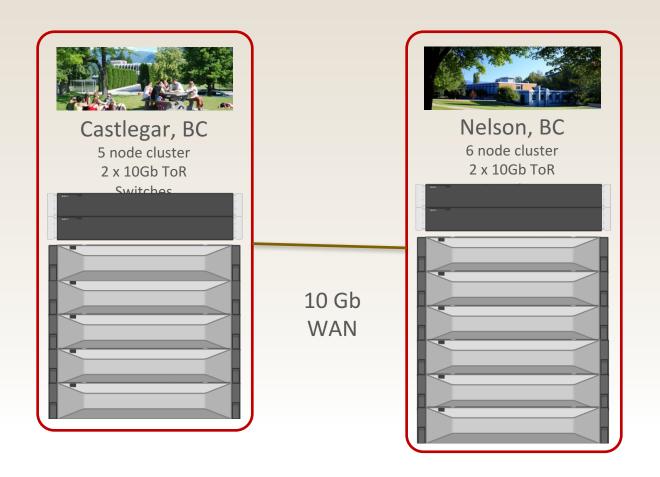


What's next for us...

- Nutanix CE Lab Environment
 - 3 node cluster
 - Repurposing old hardware
 - Image creation
 - Sandbox for learning
- VDI
 - Power user workloads with GPU
 - ARC GIS, AutoCAD, etc
 - General user workloads without GPU



Current Nutanix IT Environment





Audience Questions





VISIT NUTANIX.COM TO LEARN MORE...

Nutanix Education Web Site nutanix.com/solutions/education/

IDC White Paper: Comparing Private and Public Cloud

https://www.nutanix.com/go/idc-tcoanalysis-comparing-private-and-publiccloud-solutions-for-running-enterpriseworkloads.php





White Paper

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