



Datacenters Enter a New Era - Invisible Infrastructure (隐形 数据中心)

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July 17th 16:40 – 17:25

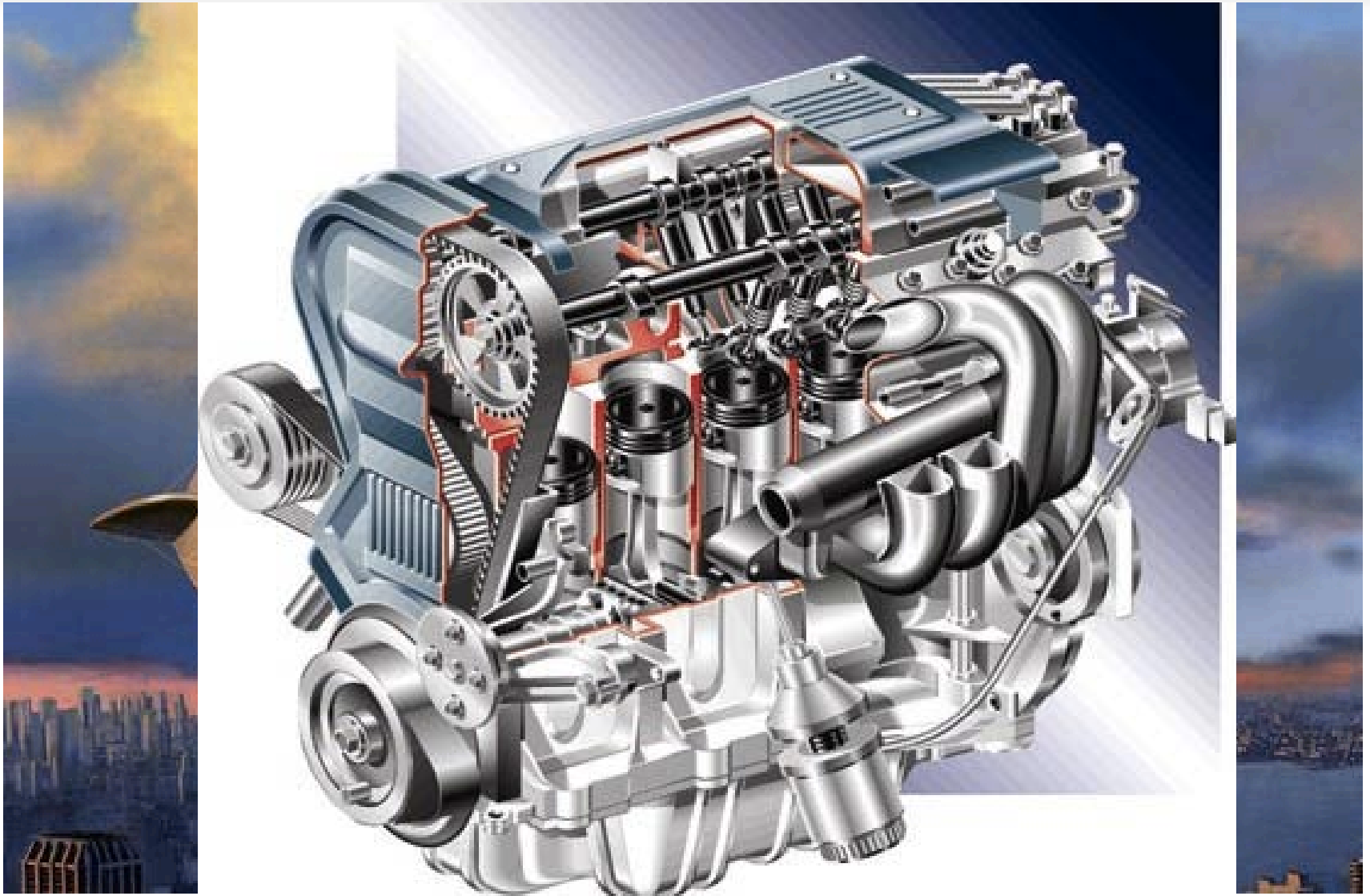


Change is happening, what are you doing about it?

New York Stock Exchange Blames



> Modes of transportation have come a long way



> Change is happening now!



> Common sense today, ridiculous tomorrow





Technology is about connecting and simplifying

TECH

More: [Uber](#)

Uber cars now outnumber taxis in New York City



MAYA KOSOFF |

MAR. 18, 2015, 3:03 PM | 4,022 | 3

Tesla Model S: Summer Software Update Will Enable Autonomous Driving

By Evan Ackerman

Posted 23 Mar 2015 | 14:00 GMT

How Google's Self-Driving Car Will Change Everything

By [Joseph A. Dallegro](#)

> What and Why over How



Make core infrastructure invisible!

> What is a “Software Defined” Data Center?



“Delivers **Invisible** Infrastructure, Elevate IT”

> Design Point For Invisible Infrastructure

Design Principles

- Unbranded x86 servers: fail-fast systems
- No special purpose appliances
- All intelligence and services in software
- Extensive automation and rich analytics
- Distributed everything

Benefits

- Linear, predictable **scale-out**
- Always-on systems
- Fast innovation in software
- Operational simplicity
- Lower TCO

facebook.



Windows Azure

Google

Baidu 百度

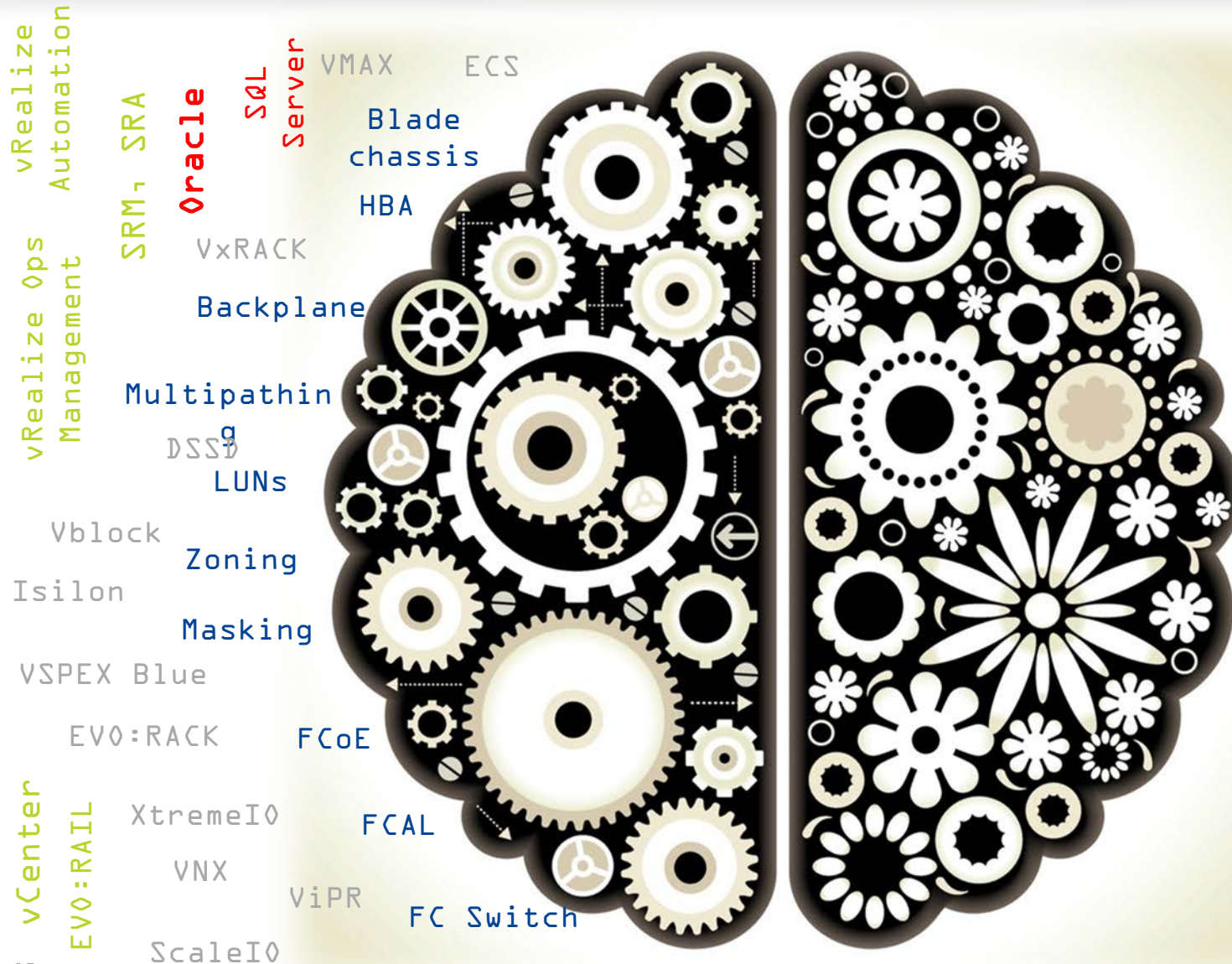
Alibaba.com

新浪微博
weibo.com



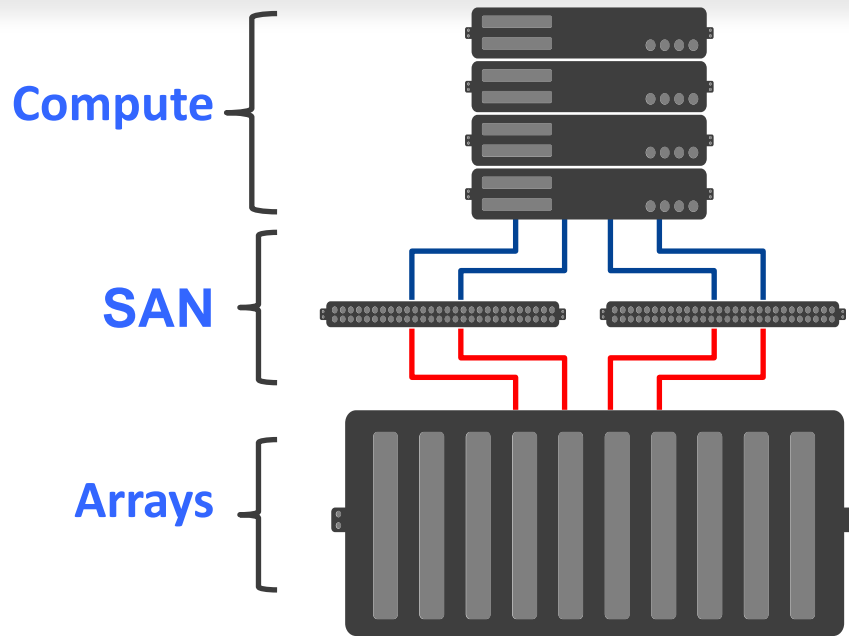
The Journey Towards Invisible Infrastructure in the Data Center

Complex is Competent, Simple is Genius



Enterprise Datacenters are Complex

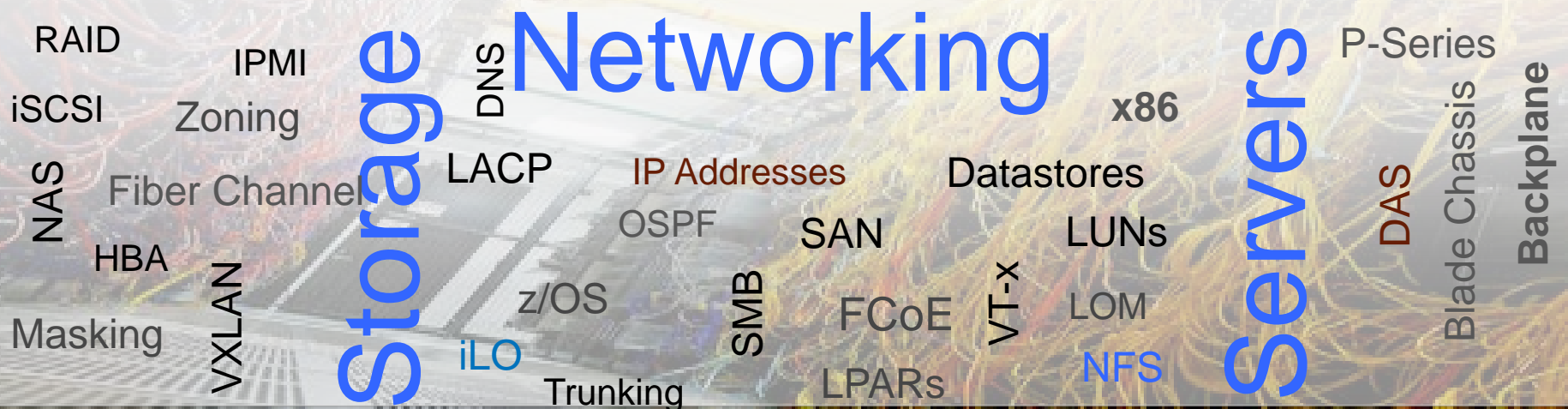
> Despite advances in Server (OS) Virtualization



“Inherent Complexity...”

“Inefficient Silos...”

“Forklift Scaling...”



> What You Should Expect From Your HyperConverged Infrastructure?



SUPERMICRO®



Massive and linear Single-Node Scale-Out Architecture with Truly Distributed File System



No Reliance on: Hypervisor components, 3rd Party Management, or Proprietary Hardware



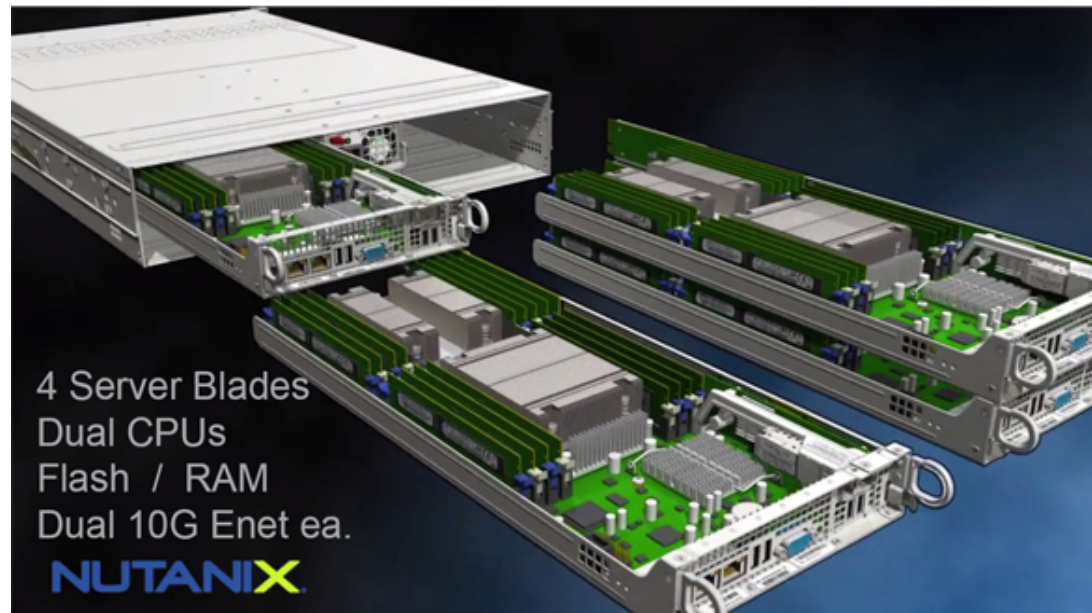
Data-Locality, Optimized for Performance and No "Hotspots", Support Central Storage Functions (HA,DRS)



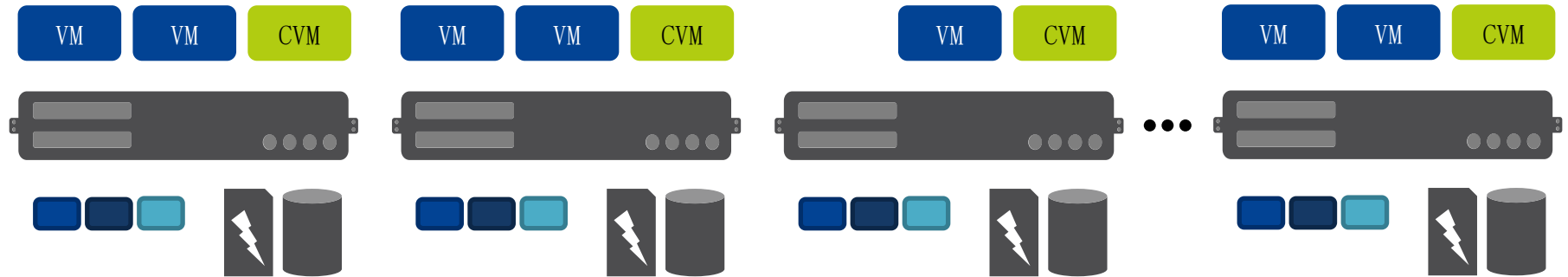
Independent Upgrade and Hardware Refresh Cycles, No More 'Forklift' Upgrades

> SDDC means No Special Hardware... Commodity

- 4 Server Blades
- X86 Commodity
- Dual CPU
- Flash
- RAM
- SSD
- Various Models
- Sizer Tool based
 - Model based on Application and Workload



> Virtualization Built On Web-Scale Foundation



Distributed Web-Scale Services

Stargate

Storage
Provisioning
Storage I/O

Cassandra

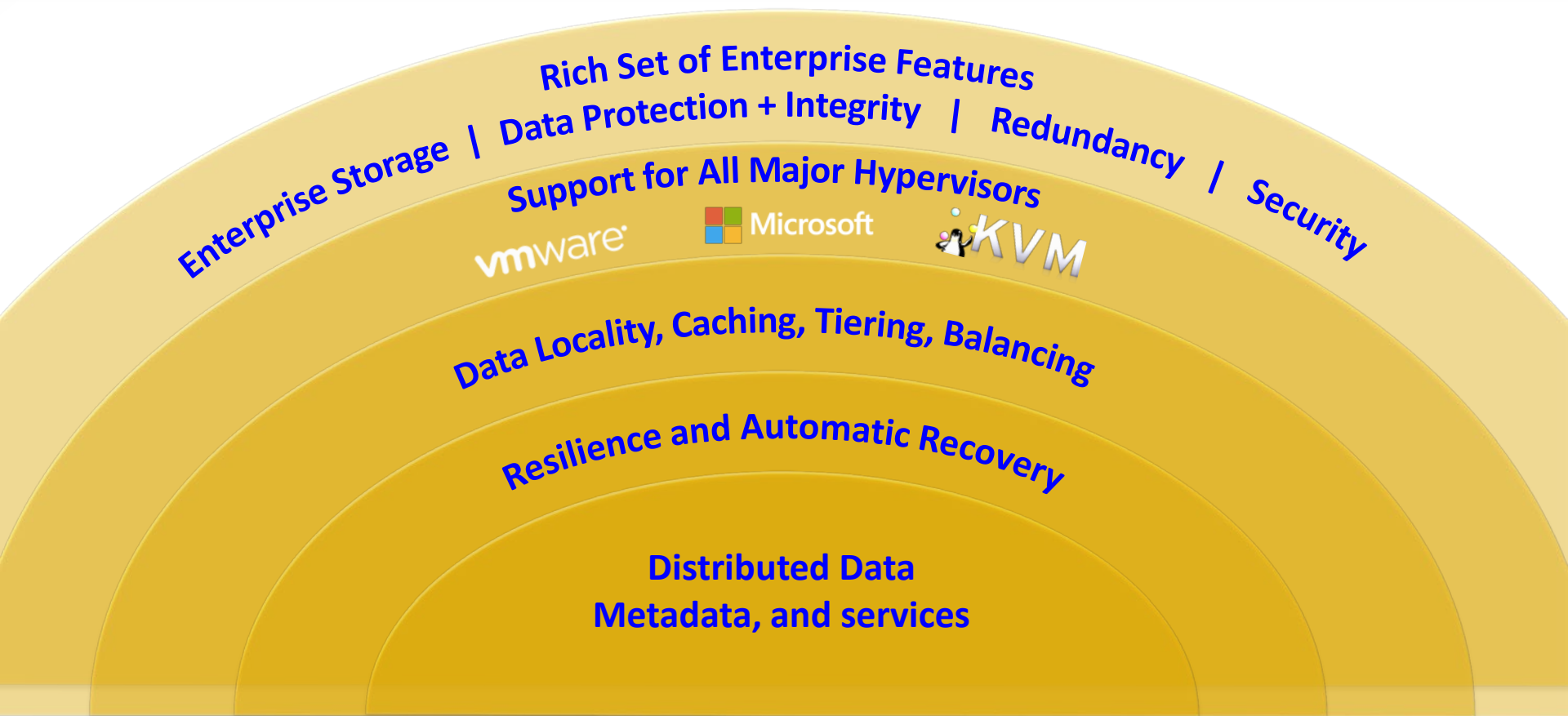
VM Configuration
Volume
Configuration
Snapshot
Information
Write Ahead Log

Zookeeper

Leader Election
Configuration
Management
Service Discovery

> Depth, Breadth, Scale

Not all hyper-converged products are created equal



SSD

HDD



SSD

HDD



SSD

HDD



Nutanix Xpure Computing Invisible Platform

Make **Cloud** Invisible

Make **Virtualization** Invisible

Make **Storage** Invisible

NUTANIX



Computing Platform



Nutanix Acropolis + Prism Platform

Prism

One Click
Planning

One Click
Provisioning

One Click
Remediation

One Click
Upgrades

App Mobility Fabric

Acropolis ESXi

Hyper-V

Acropolis
Hypervisor

Container

AWS

Azure

Distributed Storage
Fabric

SuperMicro

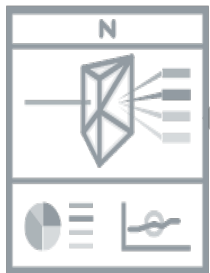
DELL

> Single Pane of Glass - Across ALL Infrastructure



- Global View
- ESXI
- Hyper-V
- NKVM
- Compute
- Storage
- Networking
- Metro Cluster
- Containers
- Public Cloud
- Private www.damns.org.cn

> Simplified Datacenter Management



Once-click Infrastructure Management

- Storage Management
- Cluster Management
- VM Management
- Network Management

One-click Remediation

- Proactive Alert Analysis
- Service Impact Analysis
- Intelligent Root Cause Analysis
- Remediation Advisor

One-click Operational Insights

- Capacity Behavior Trends
- Capacity Optimization Advisor
- What-if Analysis
- Customizable Dashboards

> Natural Language - Instant Search



Search Google or type URL



Gmail - Free Storage

Netflix - Watch TV Shows

Invisible Infrastructure

The Register: Sci/Tech

Nutanix Web Console

Nutanix YouTube - YouTube

Nutanix Web Console

Welcome to Google Chrome

Home Explore Analysis Alerts

services

Top Result

Oracle Service

See Details

Entities

Oracle Service

Exchange

VDI (Horizon View and Xedesktop)

SQL Server

Splunk

ROSH/XenApp

Alerts

Actions

Knowledge Base

Choice should be with the customers



NUTANIX
ACROPOLIS



- 80% Reduction of VMware ELAs
- Seamless Conversions
- Abstract "Hypervisors + Containers + Cloud"



Software Defined: One Product for All Workloads

Any Workload. Any Location. Any Scale. Zero Silos



> Go Ahead - Check Out Software Defined: Free

Nutanix: Free Community Edition

NUTANIX™

COMMUNITY
EDITION

Hyperconvergence in Three Steps with Community Edition



Sign Up

Sign up to access and download Community Edition software.



Deploy

Deploy Community Edition on up to four servers using a broad variety of hardware.



Play

Evaluate with any workload. Explore and share your experience on the Nutanix NEXT Community.

Community Edition is a 100% software solution enabling technology enthusiasts to easily evaluate the latest hyperconvergence technology at zero cost. Users can now experience the same **Nutanix technology** that powers the datacenters of thousands of leading enterprises around the world.

✓ Feature Rich Software ✓ Broad Hardware Support ✓ Zero Cost

NUTANIX®



Thank You