Lenovo e Redhat
una partnership di successo
Roberta Marchini
Lenovo DCG Technical Sales Manager
Data Center Group Vision

Be the most trusted data center partner – empowering customers’ Intelligent Transformation and solving humanity’s greatest challenges.
A global technology leader

- **52,000** Employees serving customers in 160+ countries
- **#240** Fortune 500
- **7** Nationalities in leadership executive council
- **100%** Publicly traded

- **48.6%** Growth rate
- **$1.2B** AI & IOT investment
- **#5** On Gartner high tech supply chain ranking
- **36** Manufacturing facilities, 7 research centers and 71 offices globally

#RedHatOSD
DCG’s 26 years of innovation

A history dedicated to continuous increases on performance, agility, and reliability

- **1999**: 1st 1U Tier 1 Rack Server, 1st Light Path Diagnostics
- **2002**: 1st Scalable 16-socket X86 server
- **2005**: 1st high availability hot-swap memory
- **2007**: 1st to decouple memory from processor
- **2010**: 1st x86 server to break 1M tpmC
- **2014**: 1st integrated memory channel flash storage
- **2014**: 1st 45 °C operating servers
- **2017**: 1st Mission-critical 8 way server in 4u form factor
- **2017**: Flexible I/O
- **2017**: Front/Rear access to all server components
- **2018**: Thermal Transfer Module

#RedHatOSD
Lenovo’s innovation continues
Dedicated to continuous advancements in performance, agility, and reliability for the data center

1st Of all vendors in number of World Records
1st In Supercomputing in the world
1st Deployment of Azure Stack in the world
1st To have VMware vSAN ready nodes with Intel Optane SSD DC
1st Mission-critical 8 way server in 4u form factor with SR950
1st Warm water cooled Intel Scalable Xeon supercomputer
1st Full integration with Nutanix Prism
1st To power on Intel Optane DC Persistent Memory

#RedHatOSD
Simplyfing the Journey to the cloud

- CROSS CLOUD ARBITRAGE
- SILO'D VIRTUALIZED WORKLOADS
- HYBRID
- PRIVATE

RED HAT CLOUDFORMS

Lenovo XClarity
Solving Data Center Challenges with Solutions

Partner Services

- Red Hat CloudForms Operations Management Software
- Red Hat OpenStack Cloud & Ansible Orchestration Software
- Red Hat Linux Operating System, Hypervisor & Software Containers

Lenovo
- XClarity Simplified Hardware Provisioning
- Innovative, Award-Winning Hardware

Traditional On-Prem Data Center

Next Generation Hybrid Data Center
Integrated, Validated, and Customizable Cloud Reference Architecture

https://lenovopress.com/software/alliances/redhat
6 Steps to Accelerate Time to Value

Deployment was a straightforward process

1. Install the Lenovo hardware
2. Deploy Red Hat Enterprise Linux OSP Director
3. Register nodes
4. Assign deployment roles
5. Verify and deploy the Overcloud
6. Finalize the operational cloud
Create a Container Solution with Lenovo & Red Hat

- Provides overview of application containers
- Container orchestration technologies (Docker and Kubernetes)
- Describes DevOps, Continuous Integration and Continuous Delivery:
- Provides examples for Openshift Container Platform

Create a Private Cloud Solution with Lenovo & Red Hat

- Reference Architecture includes:
  - Integration with Ironic for bare metal automated deployment

- Hardware Includes:
  - 2U ThinkSystem SR650
  - Lenovo 10Gbps switches with up to 126 x10Gbps ports

- Lenovo is Single point of support for Hardware and Red Hat Software

Scale out on SDS with Lenovo & Red Hat

- Reference Architecture based on 2U x3650 with up to 112TB per Node
- Open Stack Integration for Hardware Management
- Lenovo is Single point of support for Hardware and Red Hat Software
Driving IT Industry Standards
Lenovo participates in 30+ enterprise & data center standards organizations

Hardware
- Fedora
- CentOS
- Red Hat Enterprise Linux
- Red Hat OpenStack
- Red Hat OpenShift

Software
- Red Hat Ansible
- Red Hat OpenShift
- Red Hat JBoss
- Red Hat Kubernetes
- Red Hat OpenShift

Board of Director
- Red Hat
- Lenovo
- IBM
- Intel
- HP

New Membership 2016
- HP
- IBM
- Lenovo
- Oracle
- SAP
- VMware

March 2016
- Open Data Center Committee
- Scorpio Alliance
- SNIA

April 2016
- T11
- Fibre Channel
- IoT Summit

MARCH 2016
- INFINIBAND
- Trade Association

June 2016
- Redfish
- OPNFV

PCI SIG
- SATA
- Trusted Computing Group

IETF
- Open Cloud Computing Initiative
- OpenStack

GPP Technology Conference
- INTEL ONP
- Intel

IEEE 802.3
- ASHRAE
- Flash Memory Summit

ARM TechCon
- The Green Grid
- ONF
- MPI

Lenovo participates in 30+ enterprise & data center standards organizations

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Bringing it all together: Lenovo 360

Lenovo Services

Global Scale & Economics

- STIC (System Technology Innovation Center)
- Cloud
- HPC
- Engineered Solutions
- Hyperscale
- SDS (Software Defined Data Center)
- Next Gen Innovation

Servers, Storage, Networking, Hyperconverged + Ecosystem

- Big Data Database Analytics
- Client Virt.
- Computer Eng.
- Oil and Gas
- Risk Analysis
- Weather
- Deep Learning

Rack Scale Architecture
Compute and Warm Storage
Application Optimized

#RedHatOSD

Lenovo

Intel
GRAZIE PER L’ATTENZIONE

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