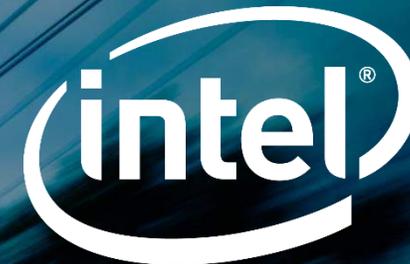




Hewlett Packard  
Enterprise



# Fórum Novas Tecnologias 2018

1ª Parte

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# Agenda

## 1ª Parte

**15:10**    **Inovação HPE: A world where everything computes**

Carlos Leite, Managing Director, Hewlett Packard Enterprise Portugal

**The foundations of Data Center Innovation**

Juan L. Polo, EMEA Regional Account Director, Intel

**Estudo de Caso Ronal Group**

João Romão, Manager Maintenance, Facility Services and IT, Ronal Group

**HPE ProLiant Gen10 e Simplivity: o valor que aportam para a sua organização**

Luís Rilhó, Servers Category Manager, Hewlett Packard Enterprise Portugal

**Estudo de Caso Grupo Alves Bandeira**

Hélio Gonçalves, Diretor de Sistemas de Informação, e Francisco Duarte, Administrador de sistemas, Grupo Alves Bandeira

**Liberte todo o potencial dos seus dados com storage inteligente**

Pedro Morais, Storage Category Manager, Hewlett Packard Enterprise Portugal

**17:10**    Intervalo para café



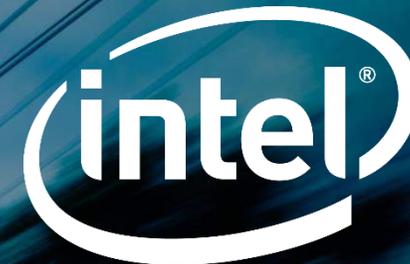
**Hewlett Packard  
Enterprise**



Trazido até si pela HPE e pela Intel®



**Hewlett Packard  
Enterprise**



# Inovação HPE: A world where everything computes

**Carlos Leite**  
Managing Director  
HPE Portugal

**Fórum Novas Tecnologias 2018 | 11 de outubro | Matosinhos**

# A criar “A world where everything computes”

Tudo e todos conectados em segurança



A inteligência vai estar incorporada em todo o lado



Através dos dados tudo será compreensível



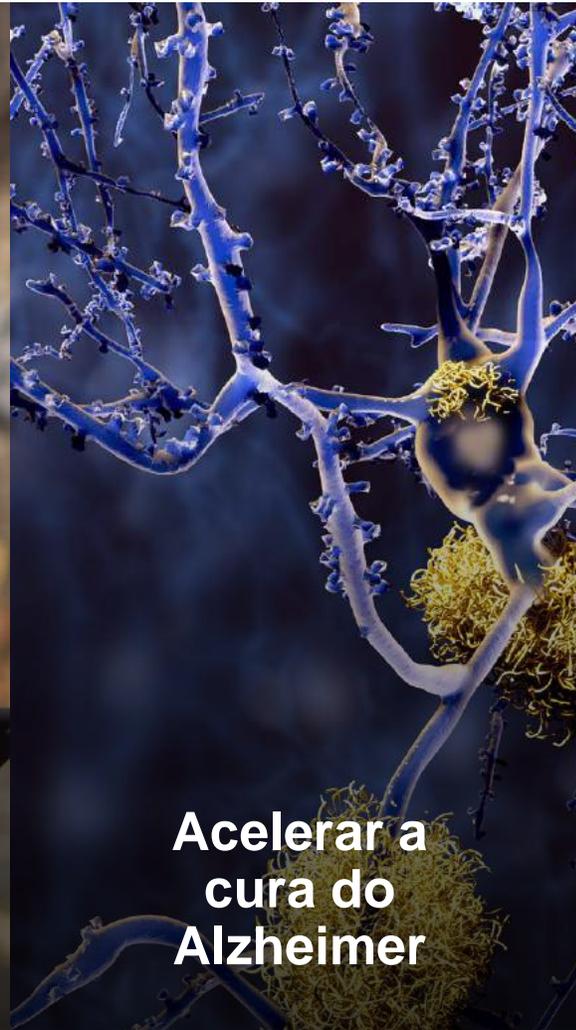
# A transformar a forma como vivemos e trabalhamos



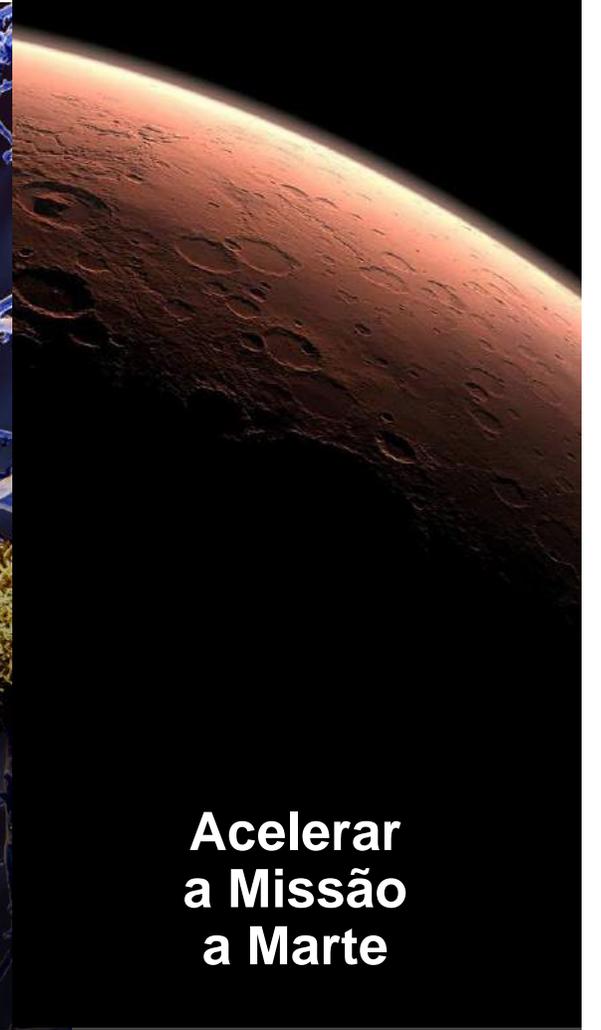
**Redefinir a  
experiência dos  
adeptos**



**Potenciar  
experiências  
únicas**

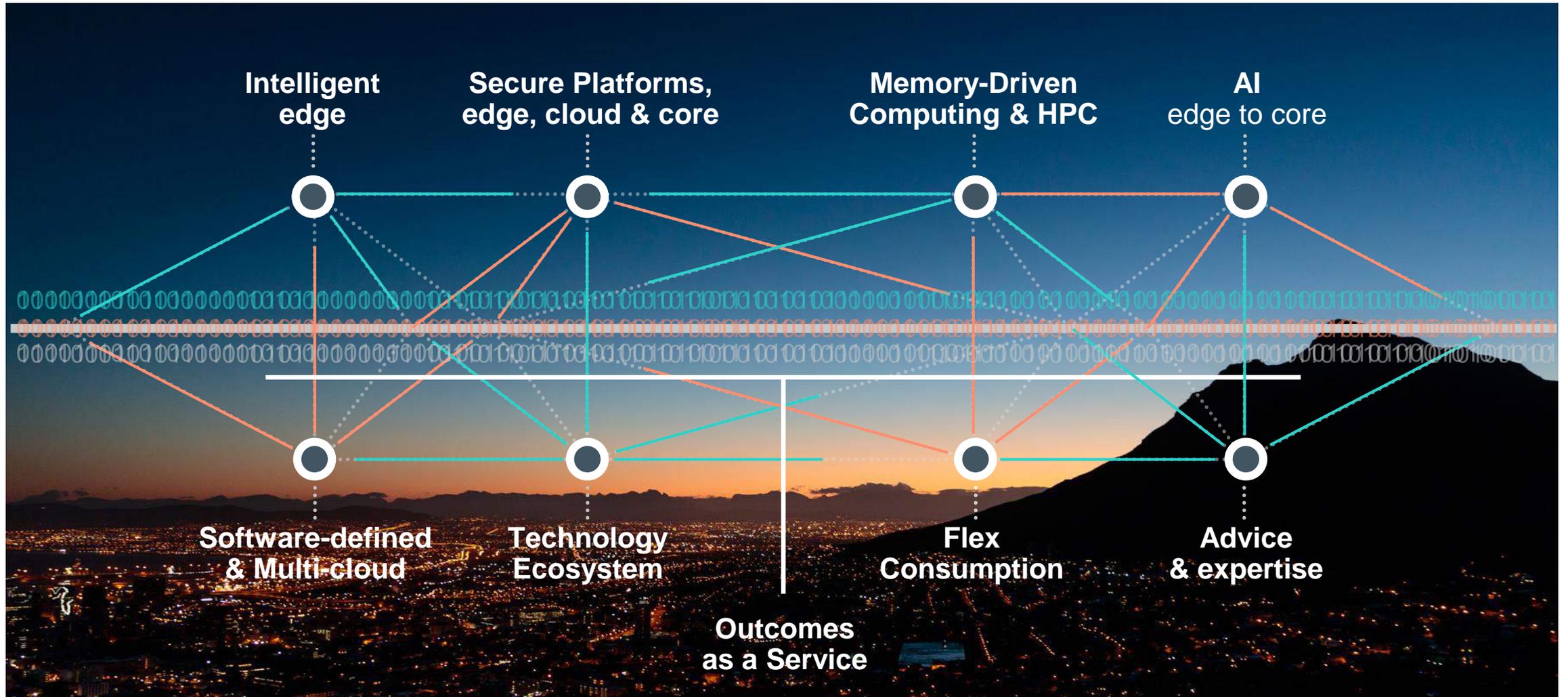


**Acelerar a  
cura do  
Alzheimer**



**Acelerar  
a Missão  
a Marte**

# A HPE potencia as empresas orientadas a dados



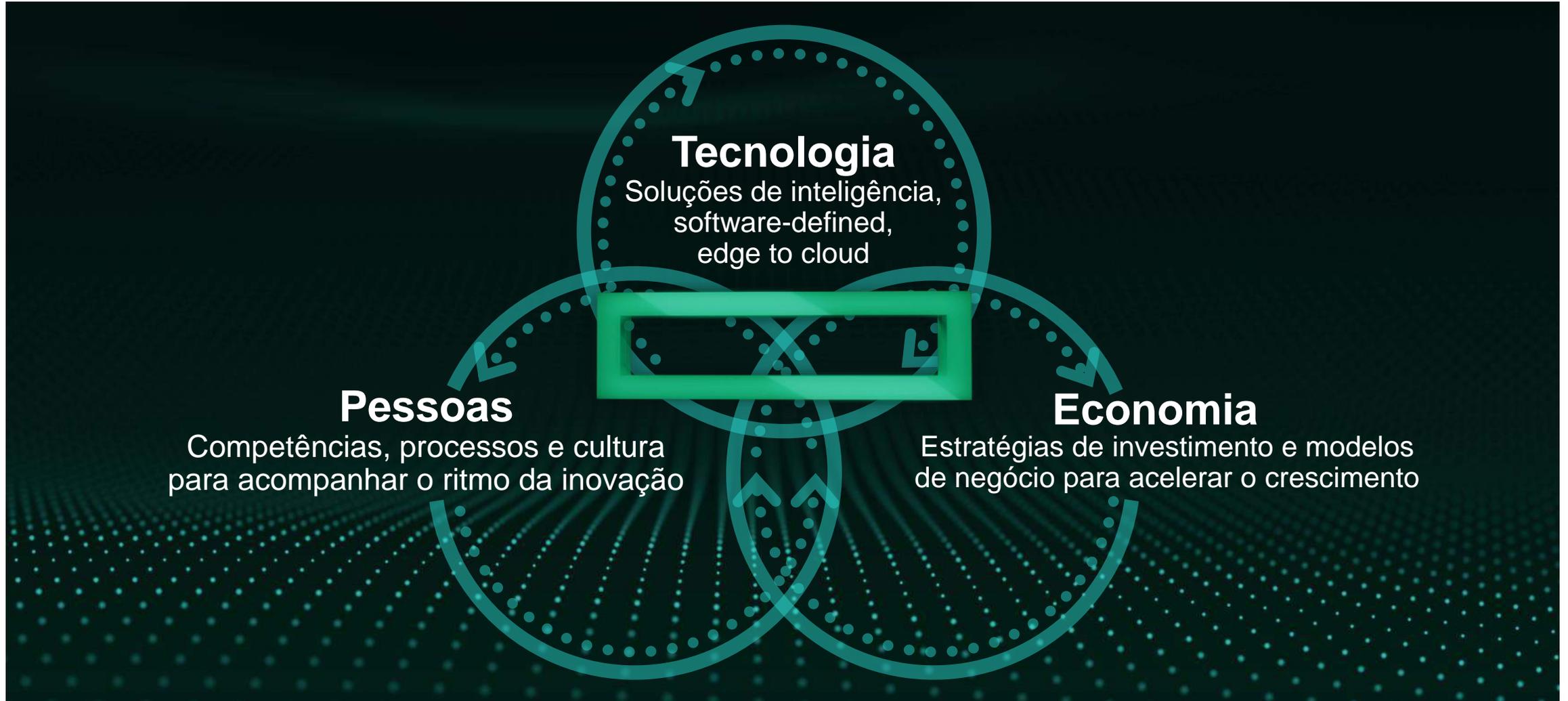
# Transformar para uma nova velocidade de negócio



Tempo para atuar  
Tempo para o mercado  
Tempo para aproveitar  
Tempo para perceber  
Tempo para atuar  
Tempo para o mercado  
Tempo para aproveitar

O tempo real é o novo **“just in time”**

# Aceleramos a sua agenda de transformação digital





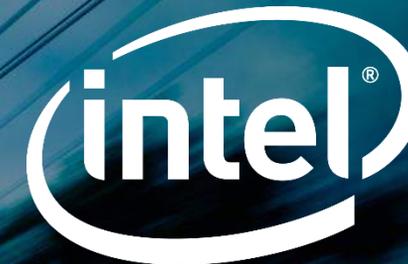
“Believe you can change the world”  
– Bill Hewlett and David Packard



# Obrigado



**Hewlett Packard  
Enterprise**



# Case Study Alron (RonaldGroup)

**SimpliVity 380**

**João Romão**  
Manager Maintenance, Facility Services and IT  
RONALgroup

**Fórum Novas Tecnologias 2018 | 11 de outubro | Matosinhos**

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**RONAL**GROUP

RONALgroup

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Advantages

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Reduces on data center

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Migrate VM

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SimpliVity – VM Objects

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SimpliVity – Capacity

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SimpliVity – Summary

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SimpliVity – Performance

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SimpliVity – Backup, Restore,

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SimpliVity – Restore Files

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# O GRUPO em 2017

**RONAL**GROUP

- A RONALgroup, fabricante de jantes de liga leve de qualidade, fornece praticamente todos os grandes fabricantes de automóveis a partir de sua sede na Suíça, em Härkingen.
- A empresa que foi fundada em 1969 impressionam com o seu design de primeira classe e elevados padrões de qualidade.
- A RONALgroup emprega mais de 8000 pessoas em todo o mundo, num total de 22 locais.

## CAPACIDADE DE RODAS DE ALUMÍNIO



mais de **21 milhões**  
de rodas 2017

## INSTALAÇÕES DE PRODUÇÃO



### EUROPA

10 fábricas (~ 17.5 milhões de rodas)

### NAFTA

2 fábricas (~ 4.0 milhões de rodas)

### TAIWAN

1 fábrica (~ 0.2 milhões de rodas)

### FABRICAÇÃO DE FERRAMENTAS

2 fábricas

## NÚMERO DE EMPREGADOS

mais de **8000**  
no mundo





**Nossos negócios em relance**



# PLANBLUE



PLANBLUE é um marco importante para a RONALGROUP.

Em primeiro lugar, garantir uma direção ecológica e sustentável para os nossos próprios processos de produção. Em segundo lugar, preparar o caminho para o desenvolvimento de inovações de produtos e métodos de trabalho que terão um impacto decisivo no futuro da mobilidade.

Na RONALGROUP, a inovação de produto é caracterizada por aspetos como:

- Fabricado com 100% de energia verde
- Curtas distâncias de transporte
- **Redução de peso até 600 g por roda**
- **Consumo reduzido de combustível e energia**
- **Emissões de CO<sub>2</sub> reduzidas em 20% \***
- Mínimo de 3.300 km de condução neutra em CO<sub>2</sub> \*\*
- 50% menos solvente na pintura

\* Durante a produção do material e o processo de fabricação

\*\* ao conduzir 150.000 km.

# RONALGROUP



– Nosso compromisso com um futuro sustentável

# Localizações - Europa

RONALGROUP

## Locais de Produção

- 1 RONAL GmbH  
D-Landau
- 2 RONAL POLSKA SP. Z.O.O.  
PL-Jelcz
- 3 RONAL POLSKA SP. Z.O.O.  
PL-Wałbrzych
- 4 RONAL POLSKA SP. Z.O.O.  
PL-Wałbrzych
- 5 RONAL CR S.R.O.  
CZ-Jičín
- 6 RONAL CR S.R.O.  
CZ-Pardubice
- 7 RONAL IBÉRICA S.A.U.  
E-Teruel
- 8 RONAL IBÉRICA S.A.U.  
E-Teruel

- 9 SPEEDLINE S.R.L.  
I-Tabina
- 10 APP-Tech S.R.L.  
I-Mestrino

## Sede

- 11 RONAL AG  
CH-Härkingen

## Vendas & atendimento ao cliente

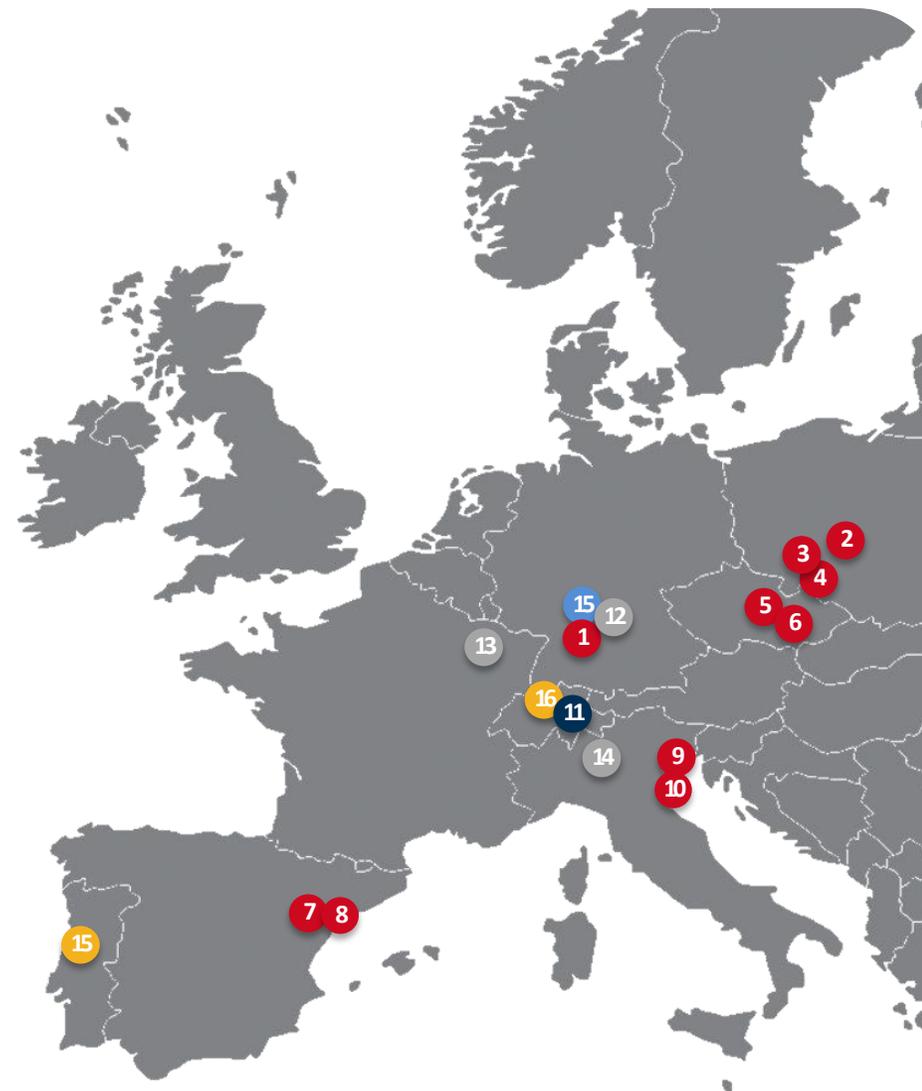
- 12 RONAL GmbH  
D-Forst
- 13 RONAL FRANCE S.A.S.  
F-Metz
- 14 SPEEDLINE TRUCK S.R.L.  
I-Presezzo

## Centro de logística

- 15 RONLOG GmbH  
D-Forst  
(desde 09/2016)

## Fabrico de ferramentas

- 16 RON AG  
CH-Härkingen
- 17 ALRON Lda.  
PT-Cantanhede



# Localizações - América

## Locais de Produção

- 1 **RONAL SAN LUIS S.A. DE C.V.**  
MX-San Luis Potosí
- 2 **RONAL QUERÉTARO S.A. DE C.V.**  
MX-Querétaro

## Vendas & atendimento ao cliente

- 3 **S.L. Wheels Inc.**  
USA, Michigan, Livonia



# Localizações - Asia & Austrália



## Locais de Produção

- 1** Fullchamp Technologies Co., Ltd.  
TW, Nantou
- 2** Carbon Revolution Pty. Ltd.  
AUS, Geelong

A RONALgroup tem

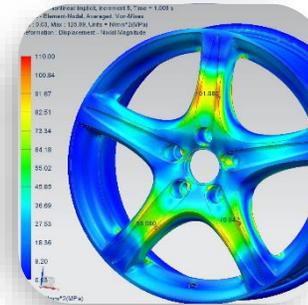
**6 centros de desenvolvimento**

(Alemanha, Suíça, Itália, Portugal, EUA e Taiwan) e

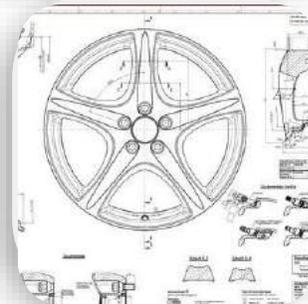
uma equipe com mais de

**120 colaboradores**

em todo o mundo.



Utilizamos sistemas CAD de última geração para construções e o projeto de modelos virtuais.



# Produção & Processos de testes

**RONAL**GROUP

PRODUZIMOS APROXIMAMENTE



# 65 000

rodas diariamente, nas 13 modernas fábricas pelo mundo.

TEMOS

# 30



**INSTALAÇÕES DE ENSAIO,**

em que todos os testes são realizados.



EM **2** FÁBRICAS

PRODUZIMOS

100 % das ferramentas.



# Carteira de clientes

RONALGROUP



...PRODUZ **97 %**  
DAS RODAS PARA A DIVISÃO OEM  
(Original Equipment Manufacturer).



# Aftermarket

# SPEEDLINE em desportos motorizados

# RONALGROUP



Sucesso partilhado - contamos com o melhor desempenho, tal como os fornecedores de automóveis desportivos no sector automóvel internacional.

Desenvolvemos rodas SPEEDLINE CORSE especiais em seu nome para uso na pista de corrida.

Isso significa que tivemos em mais de 100 títulos da FIA campeonato mundial na Fórmula 1, bem como o Campeonato Mundial de Rali, Campeonato Mundial de Rallycross, Super Touring e corridas GT.



Trazido até si pela HPE e pela Intel®

# OEM and Aftermarket

*Truck*  
**speedline**

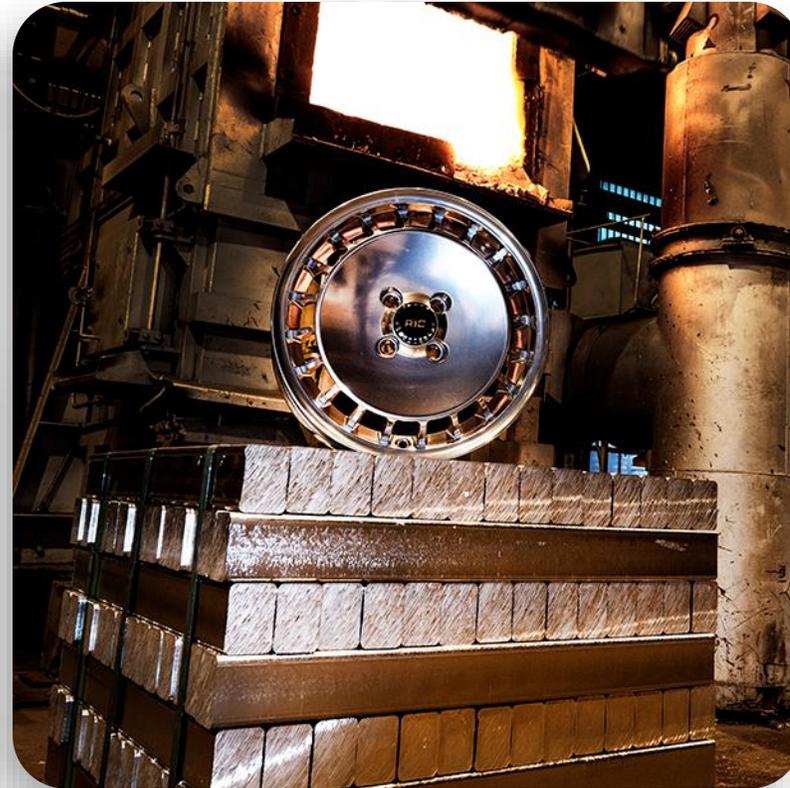
SPEEDLINE TRUCK com a equipa de corrida da Mercedes-Benz desde 2013.

Na época atual com presença em todas as corridas de camiões na Europa.



**RONAL AG**  
Lerchenbühl 3  
CH-4624 Härkingen

telefone +41 62 389 05 10  
[www.ronalgroup.com](http://www.ronalgroup.com)



Versão 1.0 / Abril 2018



# ALRON

PT – Murtede / Cantanhede

**RONAL**GROUP

# ALRON

RONALGROUP



Localizada em Murtede faz parte do grupo RONAL desde 1990. Produz as ferramentas e moldes necessários para a fundição a baixa pressão de alumínio e entrega-os às instalações fabris, do grupo, espalhadas por todo o mundo.



# ALRON

# RONALGROUP



A produção é realizada com a perícia dos seus 81 colaboradores e um parque de **52** máquinas de alto desempenho – CNC (*Computer Numeric Control*).



# HPE SimpliVity 380

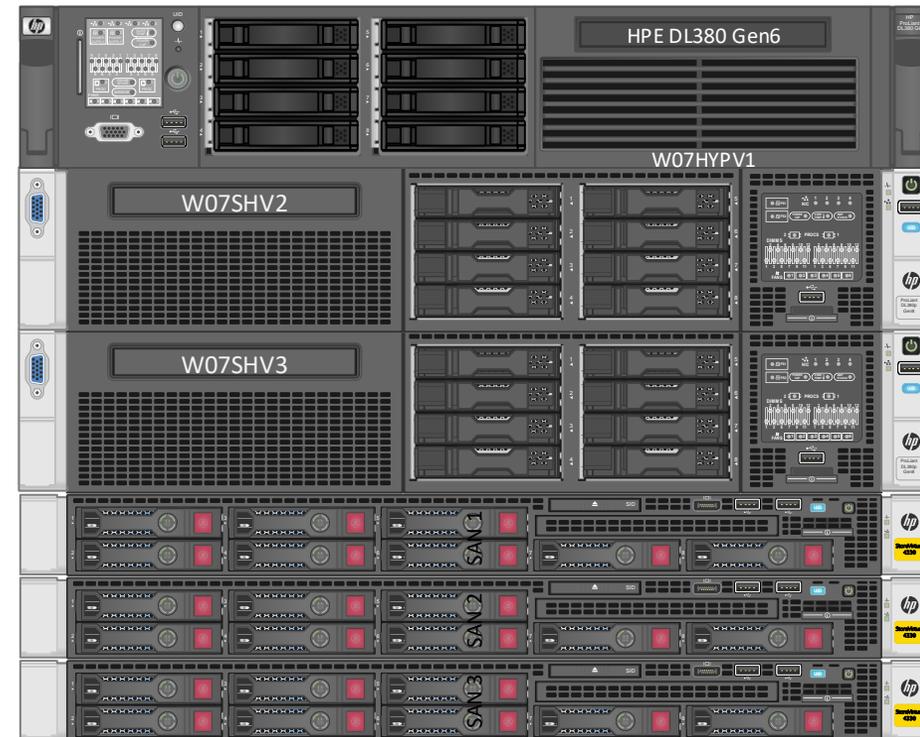
ALRON - Um dos pioneiros no país

**RONAL**GROUP

# Case Study - HPE SimpliVity 380

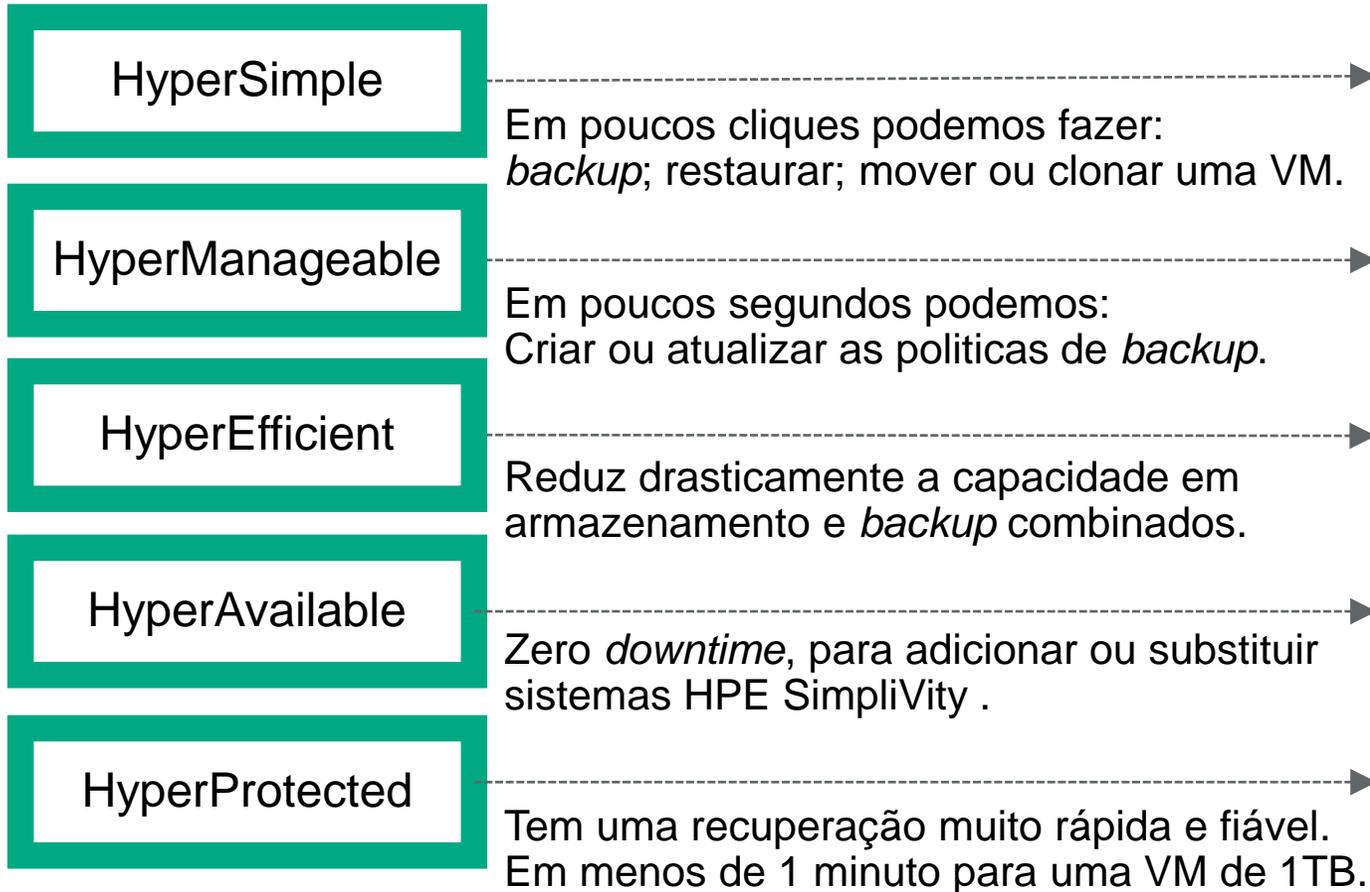
## ALRON – Reasons to change

- Only 1 IT person in this factory.
- Old Hardware Environment needed to be changed.
  - No warranty anymore – window of opportunity.
- Storage replacement (old HP SAN).
- Current architecture with limited capabilities.
- Need to create 4 to 6 virtual Machines more.
- Group decision to use VMware in all plants.
- Upgrade to OS Server 2016.
- Migration to Root Domain.

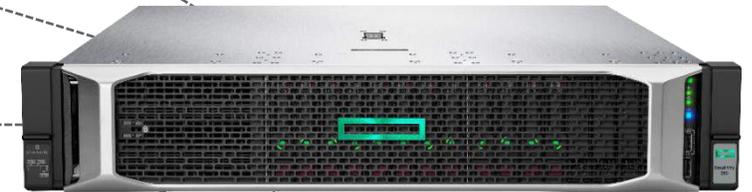


# Case Study - HPE SimpliVity 380

ALRON – Solution presented



## HPE SimpliVity 380

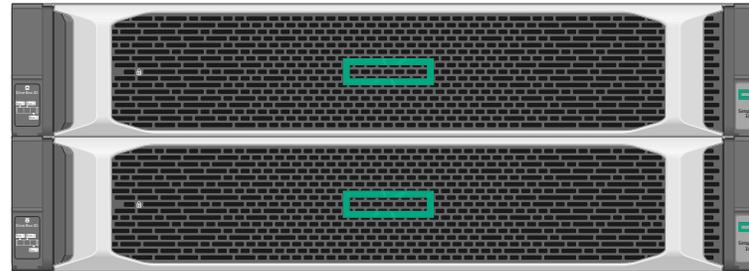
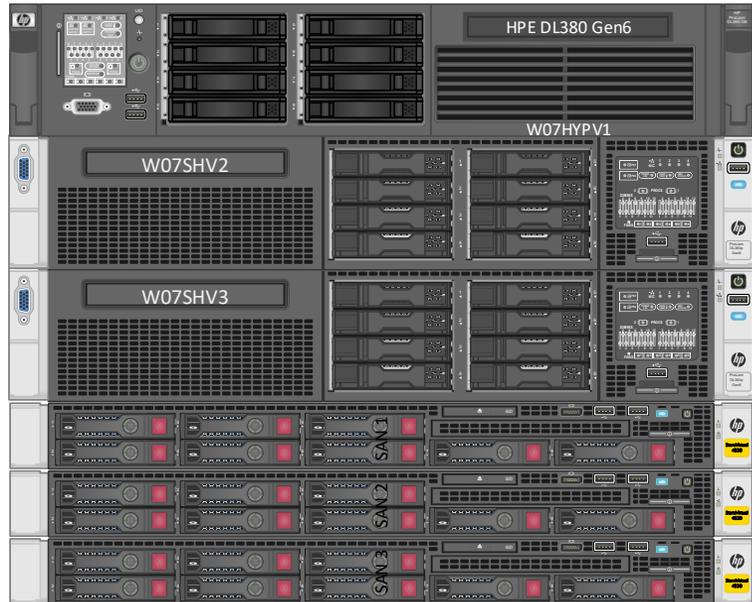


Uma solução HyperConverged

# Case Study - HPE SimpliVity 380

ALRON – Reduces on data center

**RONAL**GROUP

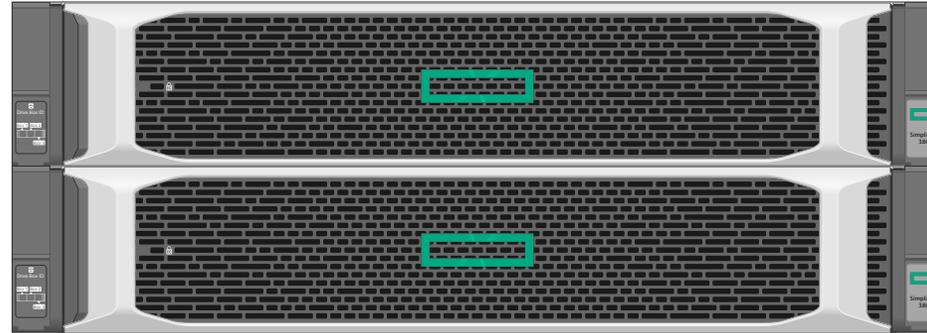


- Occupied space
- Lowers costs
- Energy consumption
- OPEX
- Updates cycles



# Case Study - HPE SimpliVity 380

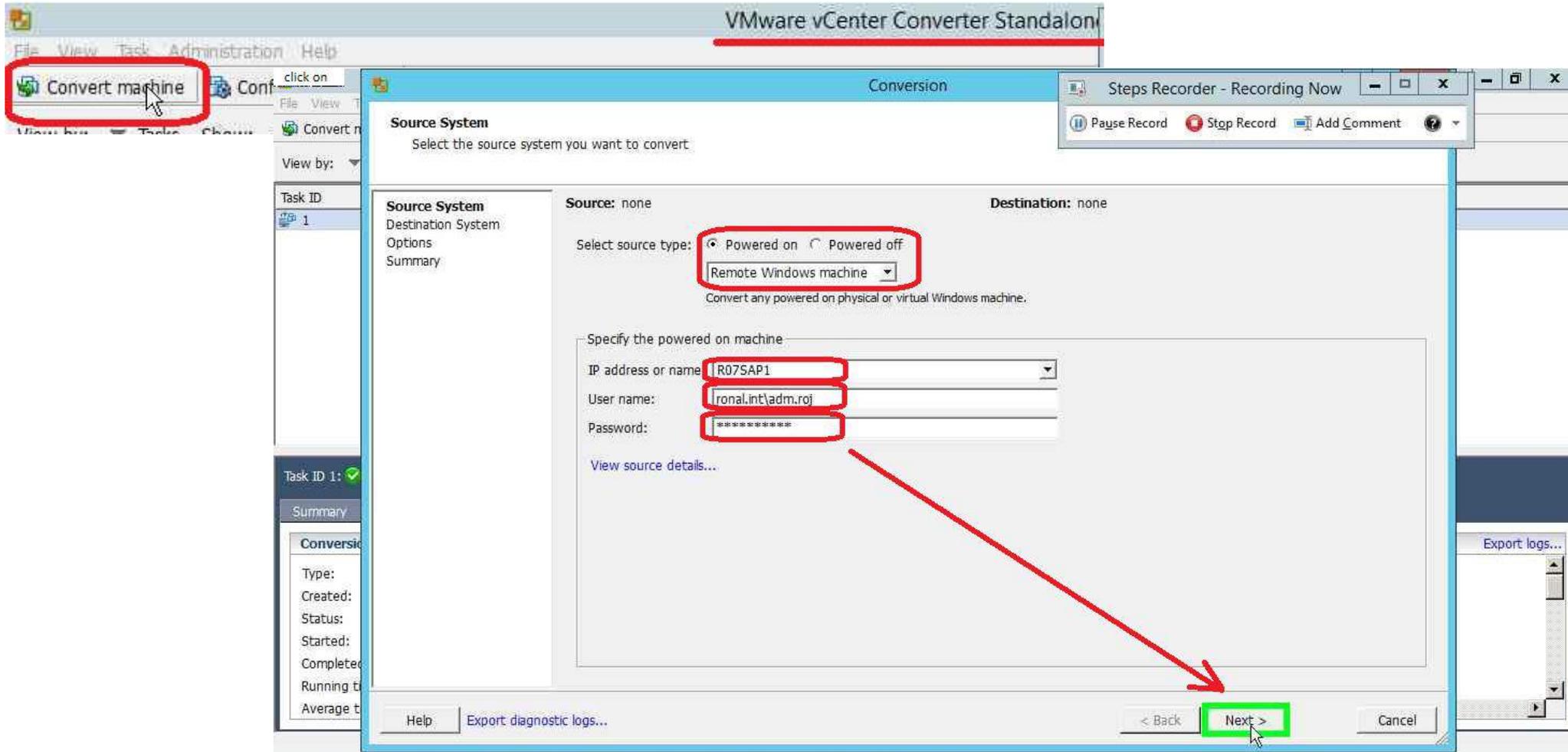
## ALRON – Advantages



- All-in-one with only 1 product
- Less maintenance / less costs
- Less equipment to purchase
- Single point of contact
- High available: The storage nodes act as one highly-reliable and redundant pool of storage. Should one node go down, the rest will remain unaffected.
- Scalability: Because of the node-based architecture, it is very easy to scale up your hyperconverged data center. Simply add or subtract nodes to match your resource demand.
- A converged infrastructure (CI) consists of compute, network and storage resources integrated into a single chassis. The primary advantage of CI is that the manufacturer certifies the components to be compatible with one another.
- Cost efficiency: Hyperconvergence brings an affordable economic model to any IT department. Because there is less equipment to purchase, maintain, and support, the recurring costs of supporting a hyperconverged data center are lower.
- Hyperconverged systems are designed to be self-contained and remotely managed. That makes them an excellent choice for hosting virtual machines at branch offices

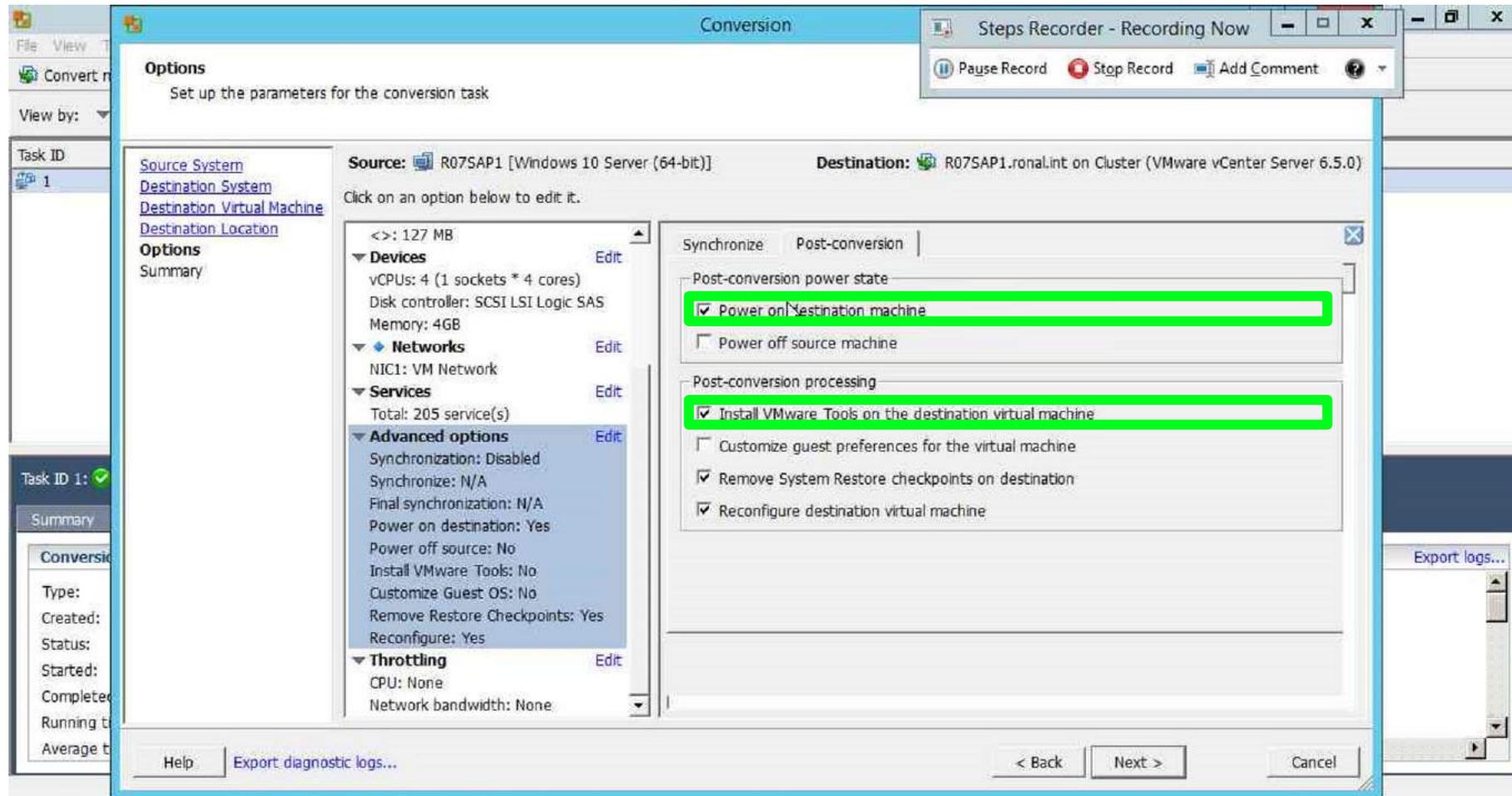
# Case Study - HPE SimpliVity 380

## ALRON – Migrate to VMware



# Case Study - HPE SimpliVity 380

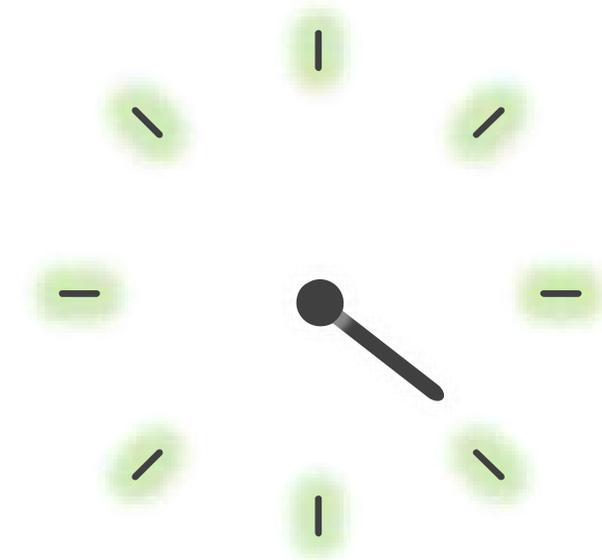
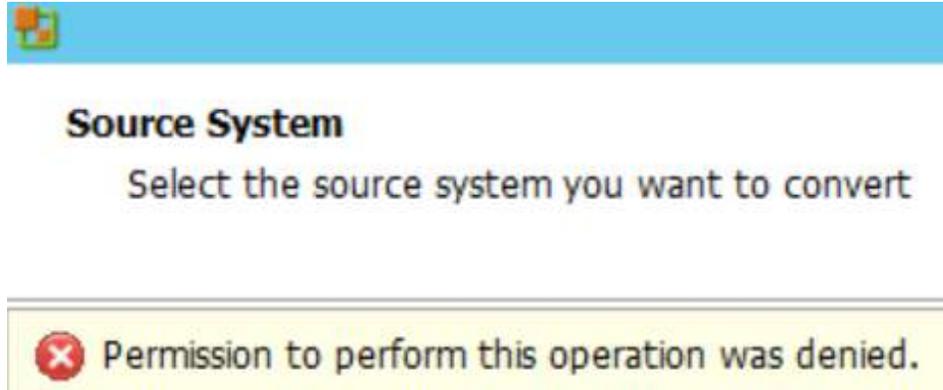
## ALRON – Migrate to Vmware



# Case Study - HPE SimpliVity 380

ALRON – Migrate to Vmware (Time & error)

**RONAL**GROUP



**20 to 40 minutes**

- On regedit change this key  
HKEY\_LOCAL\_MACHINE\Software\Microsoft\Windows\CurrentVersion\policies\system
  - EnableLUA, from 1 to 0
- Reboot the Server

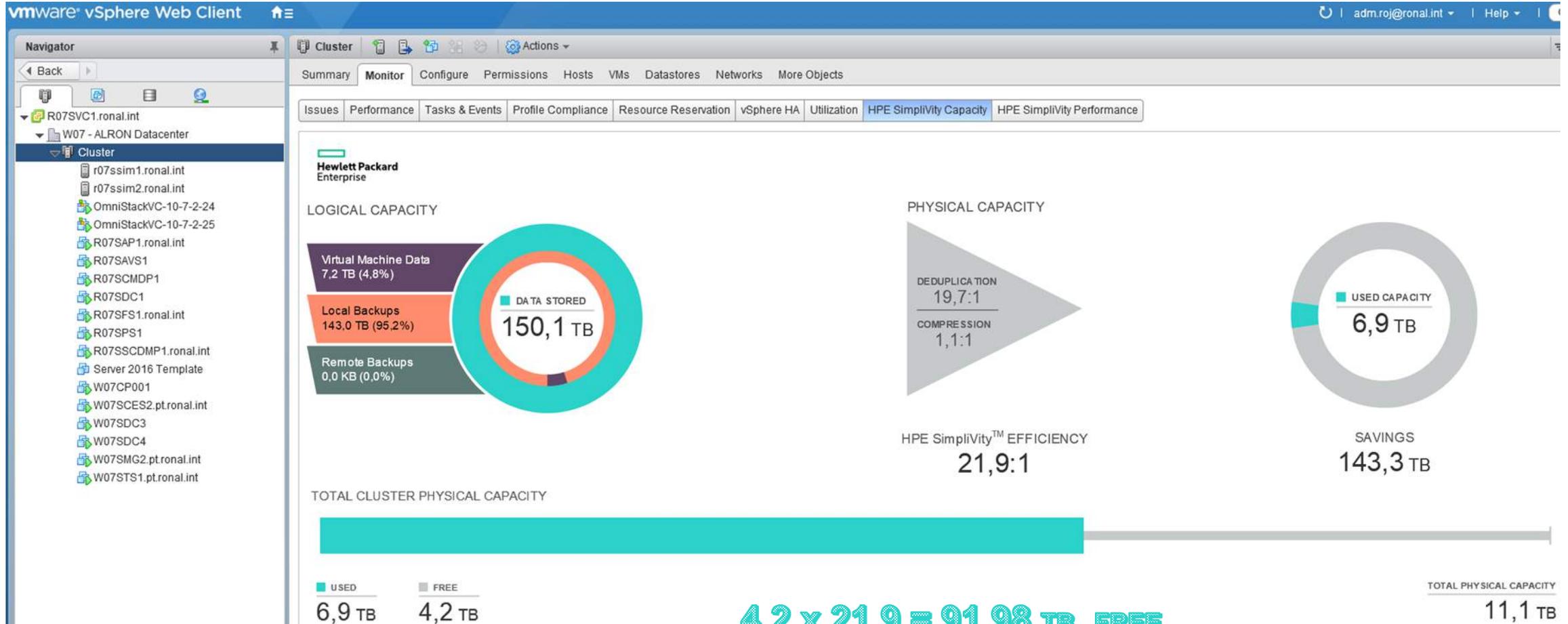
# Case Study - HPE SimpliVity 380

## ALRON – Virtual Machines Objects

Name	Provisioned	Used	Backup Policy	Sto... 1 ▲	Datastore	Cluster	Datacenter	vCenter
W07STS1.pt.ronal.int	320,0 GB	135,4 GB	BK_Policy	Yes	SimpliVity Datastore1	Cluster	W07 - ALRON Datacenter	R07SVC1.ronal.int
W07SMG2.pt.ronal.int	700,0 GB	299,1 GB	BK_Policy	Yes	SimpliVity Datastore1	Cluster	W07 - ALRON Datacenter	R07SVC1.ronal.int
W07SDC4	127,0 GB	26,5 GB	BK_Policy_noVSS	Yes	SimpliVity Datastore1	Cluster	W07 - ALRON Datacenter	R07SVC1.ronal.int
W07SDC3	127,0 GB	29,5 GB	BK_Policy_noVSS	Yes	SimpliVity Datastore1	Cluster	W07 - ALRON Datacenter	R07SVC1.ronal.int
W07SCES2.pt.ronal.int	1,4 TB	1,1 TB	BK_Policy	Yes	SimpliVity Datastore1	Cluster	W07 - ALRON Datacenter	R07SVC1.ronal.int
W07CP001	117,4 GB	101,9 GB	BK_Policy_noVSS	Yes	SimpliVity Datastore1	Cluster	W07 - ALRON Datacenter	R07SVC1.ronal.int
Server 2016 Template	68,2 GB	23,9 GB	BK_Policy	Yes	SimpliVity Datastore1	Cluster	W07 - ALRON Datacenter	R07SVC1.ronal.int
R07SSCDMP1.ronal.int	350,0 GB	207,7 GB	BK_Policy	Yes	SimpliVity Datastore1	Cluster	W07 - ALRON Datacenter	R07SVC1.ronal.int
R07SPS1	60,0 GB	31,5 GB	BK_Policy	Yes	SimpliVity Datastore2	Cluster	W07 - ALRON Datacenter	R07SVC1.ronal.int
R07SFS1.ronal.int	2,1 TB	942,0 GB	BK_Policy	Yes	SimpliVity Datastore1	Cluster	W07 - ALRON Datacenter	R07SVC1.ronal.int
R07SDC1	100,0 GB	21,1 GB	BK_Policy_noVSS	Yes	SimpliVity Datastore1	Cluster	W07 - ALRON Datacenter	R07SVC1.ronal.int
R07SCMDP1	258,0 GB	29,5 GB	BK_Policy	Yes	SimpliVity Datastore1	Cluster	W07 - ALRON Datacenter	R07SVC1.ronal.int
R07SAVS1	60,0 GB	34,7 GB	BK_Policy	Yes	SimpliVity Datastore2	Cluster	W07 - ALRON Datacenter	R07SVC1.ronal.int
R07SAP1.ronal.int	178,3 GB	46,8 GB	BK_Policy	Yes	SimpliVity Datastore2	Cluster	W07 - ALRON Datacenter	R07SVC1.ronal.int

# Case Study - HPE SimpliVity 380

## ALRON – Capacity



# Case Study - HPE SimpliVity 380

## ALRON – Summary

The screenshot displays the VMware vSphere Web Client interface for an HPE SimpliVity cluster. The left-hand 'Navigator' pane shows a tree view of the environment, including the cluster and its constituent hosts. The main area is titled 'Cluster' and provides a summary of key metrics and resource usage.

**Cluster Summary:**

- Total Processors: 36
- Total vMotion Migrations: 52

**Resource Usage Summary:**

Resource	Used	Free	Capacity
CPU	14,17 GHz	93,58 GHz	107,75 GHz
MEMORY	277,32 GB	298,01 GB	575,34 GB
STORAGE	3,60 TB	6,94 TB	10,53 TB

**Cluster Resources:** Includes sections for Cluster Resources, Cluster Consumers, and Related Objects (showing the Datacenter: W07 - ALRON Datacenter).

**HPE SimpliVity Metrics:**

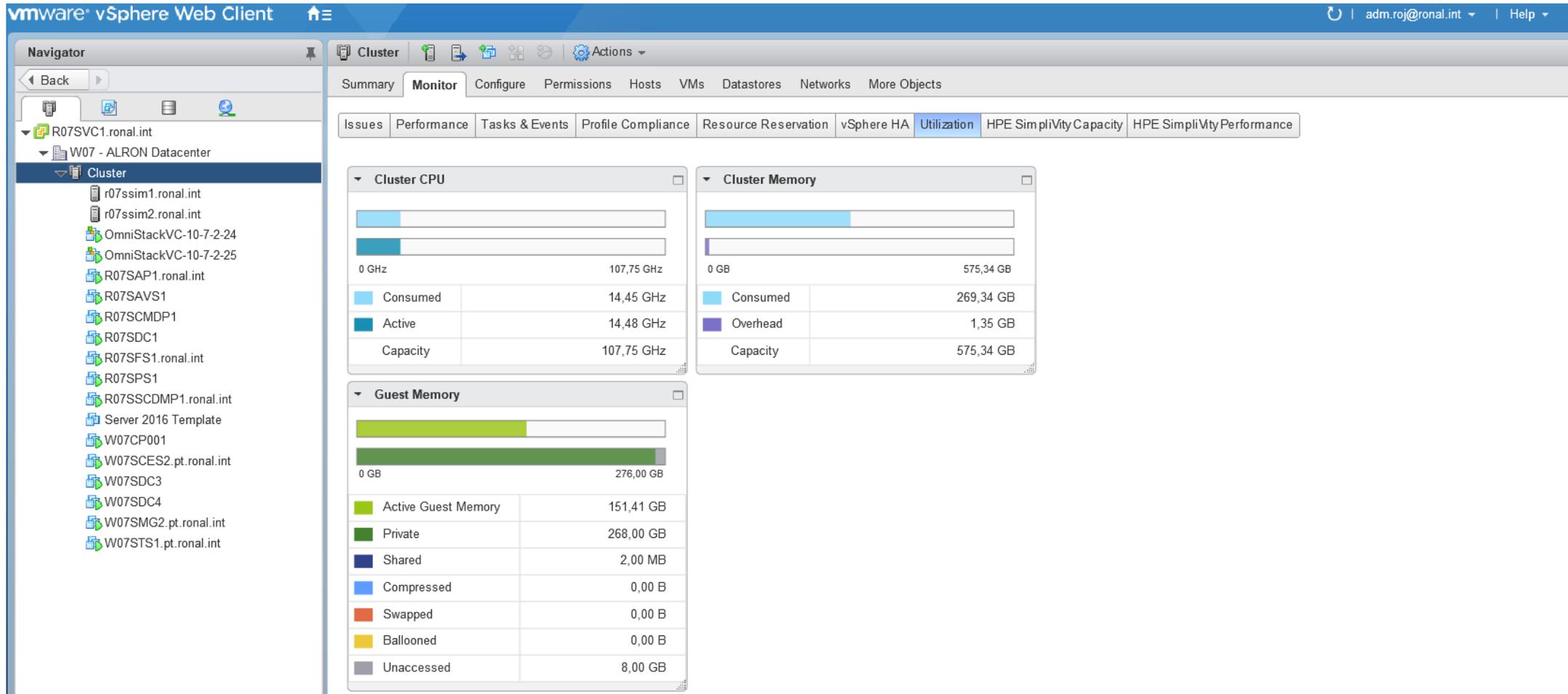
Metric	Value
Total capacity	11,1 TB (100,0%)
Capacity used	6,2 TB (56,2%)
Capacity free	4,9 TB (43,8%)
Deduplication ratio	14,8:1
Compression ratio	1,1:1
Space saved	96,3 TB (869,0%)
Virtual machine count	15
Arbiter Status	Connected

**Other Sections:** vSphere Availability, Tags (empty), and Custom Attributes (empty).

The interface also features a 'Hewlett Packard Enterprise' logo and a 'Monitor Capacity' button at the bottom left of the main content area.

# Case Study - HPE SimpliVity 380

## ALRON – Utilization



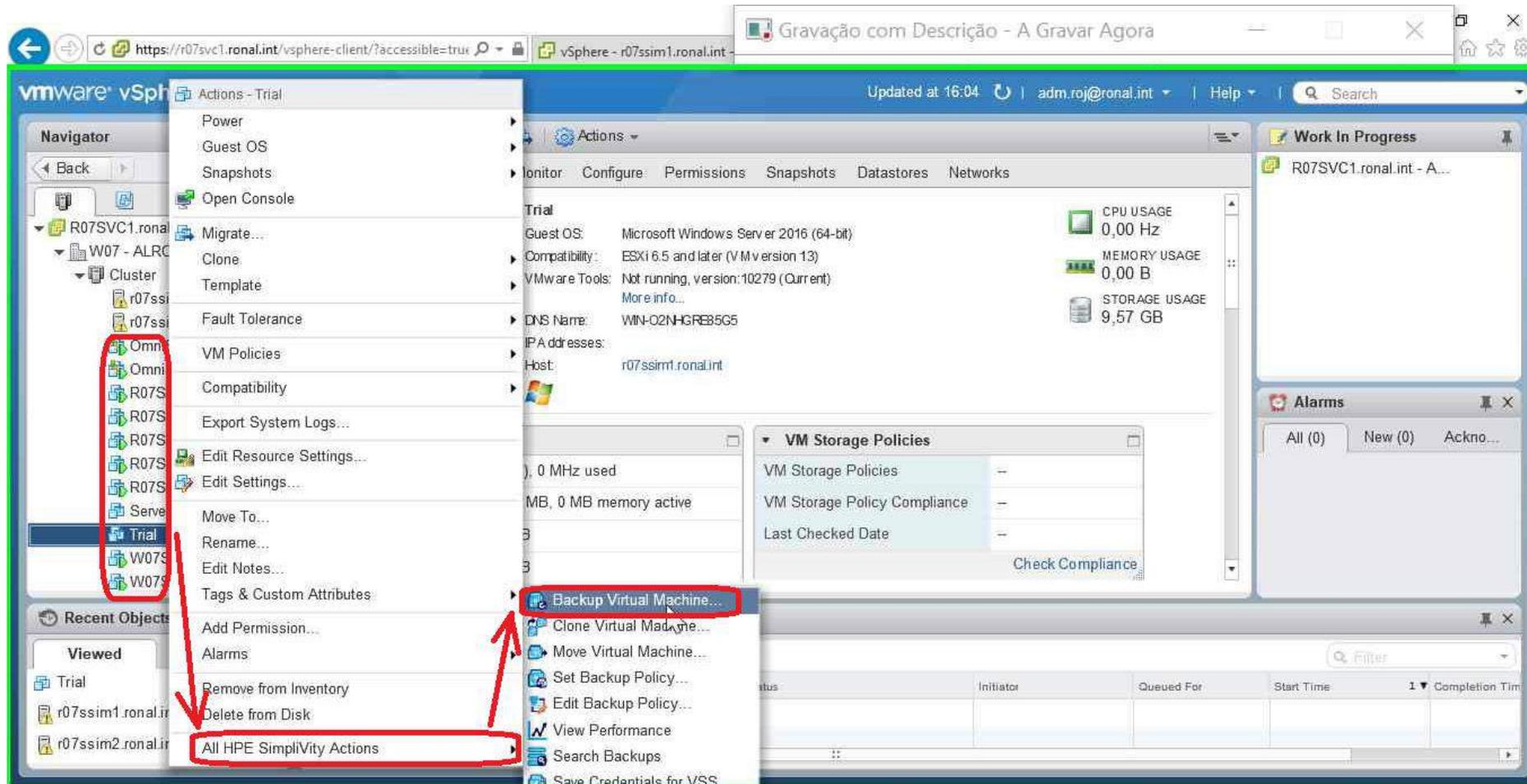
# Case Study - HPE SimpliVity 380

## ALRON – Performance



# Case Study - HPE SimpliVity 380

## ALRON – Backup VM



# Case Study - HPE SimpliVity 380

## ALRON – List of Backups

The screenshot shows the VMware vSphere Web Client interface. The left-hand navigation pane displays a tree view of the environment, including the R07SVC1.ronal.int cluster and its various virtual machines. The main content area is titled 'Hewlett Packard Enterprise SEARCH BACKUPS' and features a search filter section with the following settings:

- Filters Applied: 2
- Backup Actions: [Dropdown]
- Search Backups: [Text Input]
- Virtual Machine: [Dropdown]
- Equals: [Dropdown]
- Timestamp: [Dropdown]
- After: [Dropdown]
- Date: 09/24/2018
- Time: 00:00

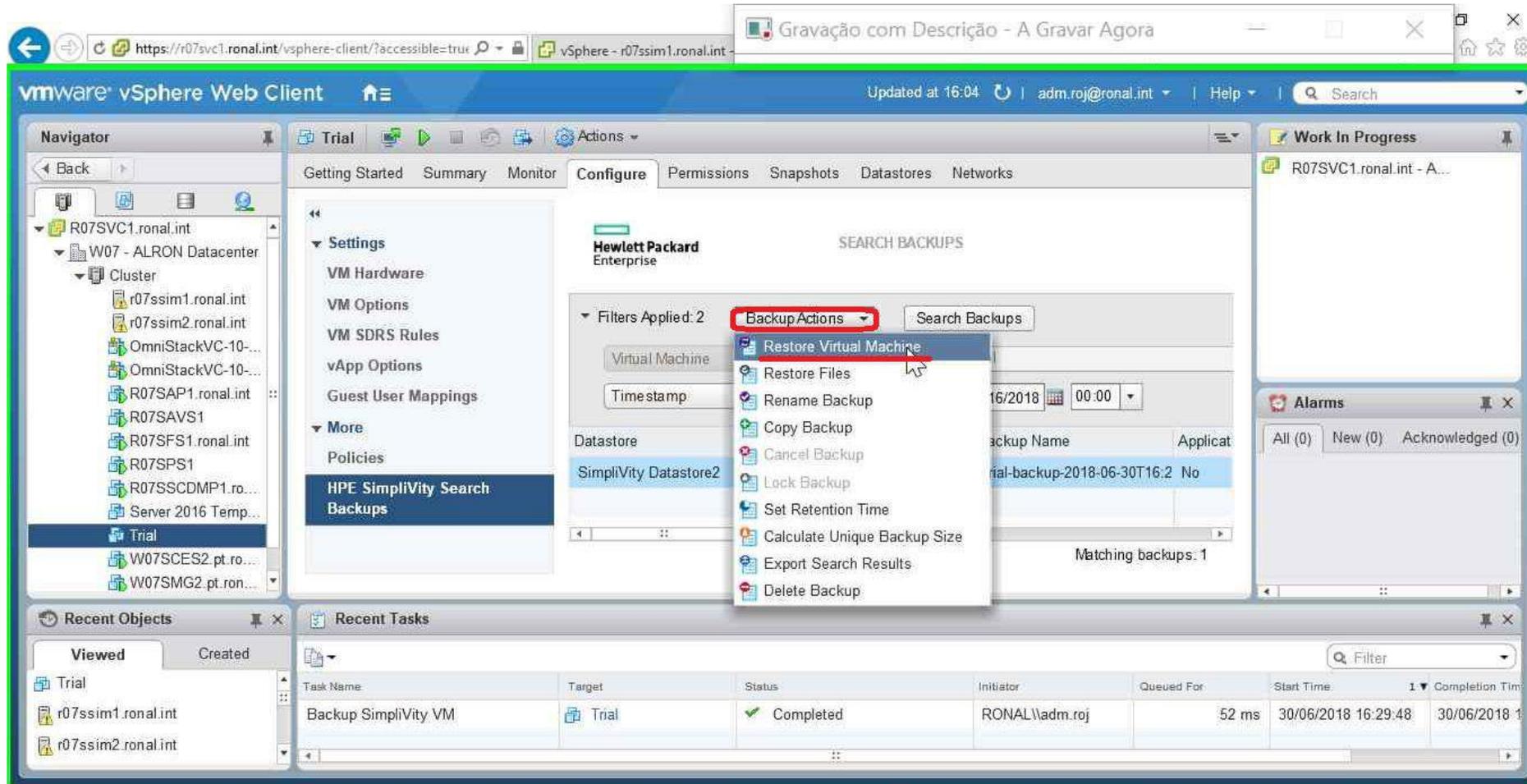
The main table displays the following backup data:

Datastore	Virtual Machine	Backup Name	Application Co...	Type	Cluster	Timestamp	Status
SimpliVity Datastore1	R07SFS1.ronal.int	2018-09-24T18:14:00+01:00	Unknown	Policy	Cluster	9/24/2018 6:14 PM	Protected
SimpliVity Datastore1	R07SFS1.ronal.int	2018-09-25T18:14:00+01:00	Unknown	Policy	Cluster	9/25/2018 6:14 PM	Protected
SimpliVity Datastore1	R07SFS1.ronal.int	2018-09-26T18:14:00+01:00	Unknown	Policy	Cluster	9/26/2018 6:14 PM	Protected
SimpliVity Datastore1	R07SFS1.ronal.int	2018-09-27T18:14:00+01:00	Unknown	Policy	Cluster	9/27/2018 6:14 PM	Protected
SimpliVity Datastore1	R07SFS1.ronal.int	2018-09-28T18:14:00+01:00	Unknown	Policy	Cluster	9/28/2018 6:14 PM	Protected
SimpliVity Datastore1	R07SFS1.ronal.int	2018-09-29T18:14:00+01:00	Unknown	Policy	Cluster	9/29/2018 6:14 PM	Protected
SimpliVity Datastore1	R07SFS1.ronal.int	2018-09-30T18:14:00+01:00	Unknown	Policy	Cluster	9/30/2018 6:14 PM	Protected
SimpliVity Datastore1	R07SFS1.ronal.int	2018-10-01T18:14:00+01:00	Unknown	Policy	Cluster	10/1/2018 6:14 PM	Protected
SimpliVity Datastore1	R07SFS1.ronal.int	2018-10-02T18:14:00+01:00	Unknown	Policy	Cluster	10/2/2018 6:14 PM	Protected
SimpliVity Datastore1	R07SFS1.ronal.int	2018-10-03T18:14:00+01:00	Unknown	Policy	Cluster	10/3/2018 6:14 PM	Protected
SimpliVity Datastore1	R07SFS1.ronal.int	2018-10-04T18:14:00+01:00	Unknown	Policy	Cluster	10/4/2018 6:14 PM	Protected
SimpliVity Datastore1	R07SFS1.ronal.int	2018-10-05T18:14:00+01:00	Unknown	Policy	Cluster	10/5/2018 6:14 PM	Protected
SimpliVity Datastore1	R07SFS1.ronal.int	2018-10-06T18:14:00+01:00	Unknown	Policy	Cluster	10/6/2018 6:14 PM	Protected
SimpliVity Datastore1	R07SFS1.ronal.int	2018-10-07T18:14:00+01:00	Unknown	Policy	Cluster	10/7/2018 6:14 PM	Protected

Matching backups: 14

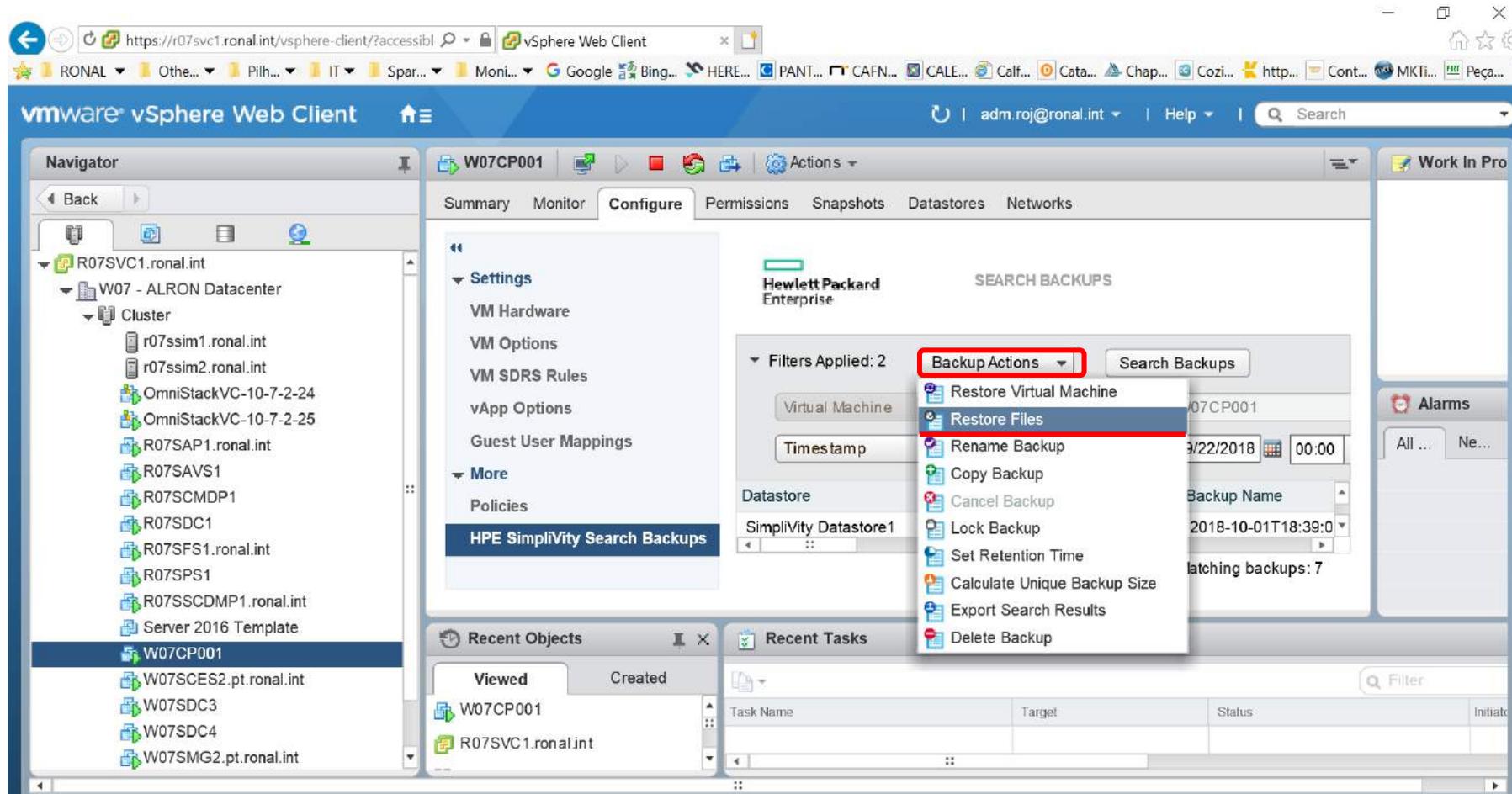
# Case Study - HPE SimpliVity 380

## ALRON – Restore VM



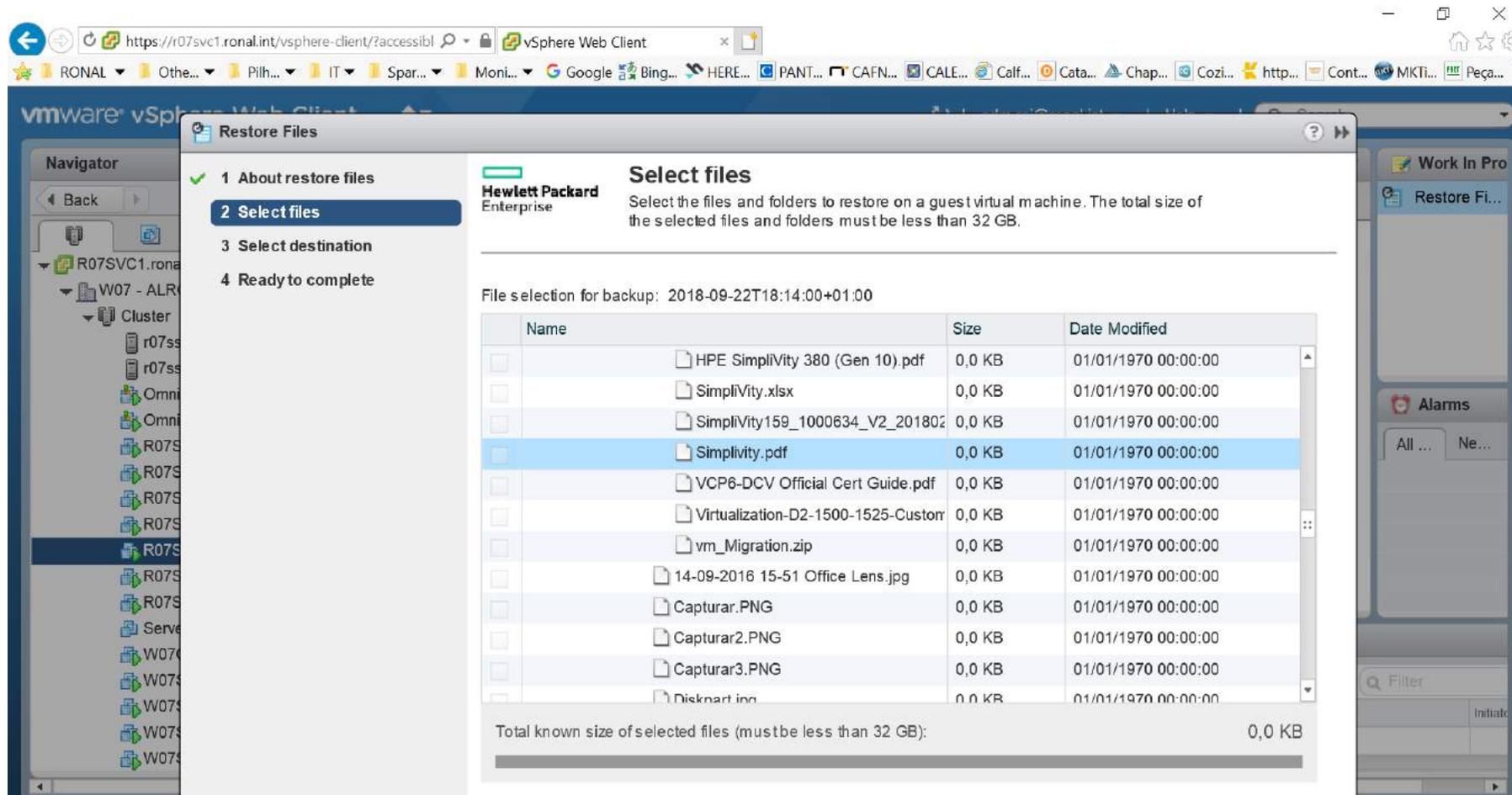
# Case Study - HPE SimpliVity 380

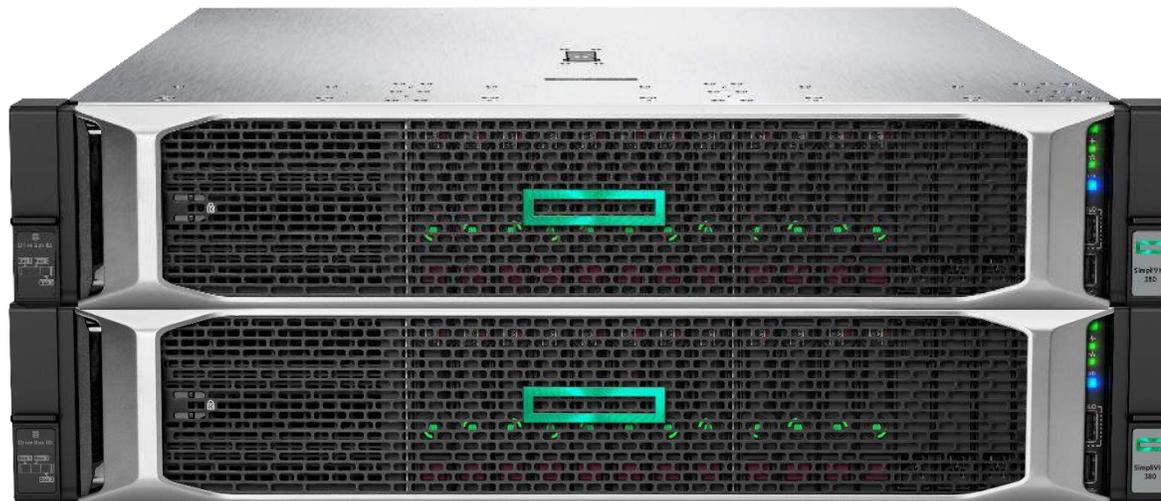
## ALRON – Restore Files



# Case Study - HPE SimpliVity 380

## ALRON – Restore Files (Select file(s))





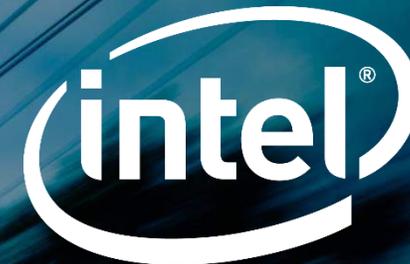
# Obrigado

**RONAL**GROUP





**Hewlett Packard  
Enterprise**



# HPE ProLiant Gen10 e Simplivity:

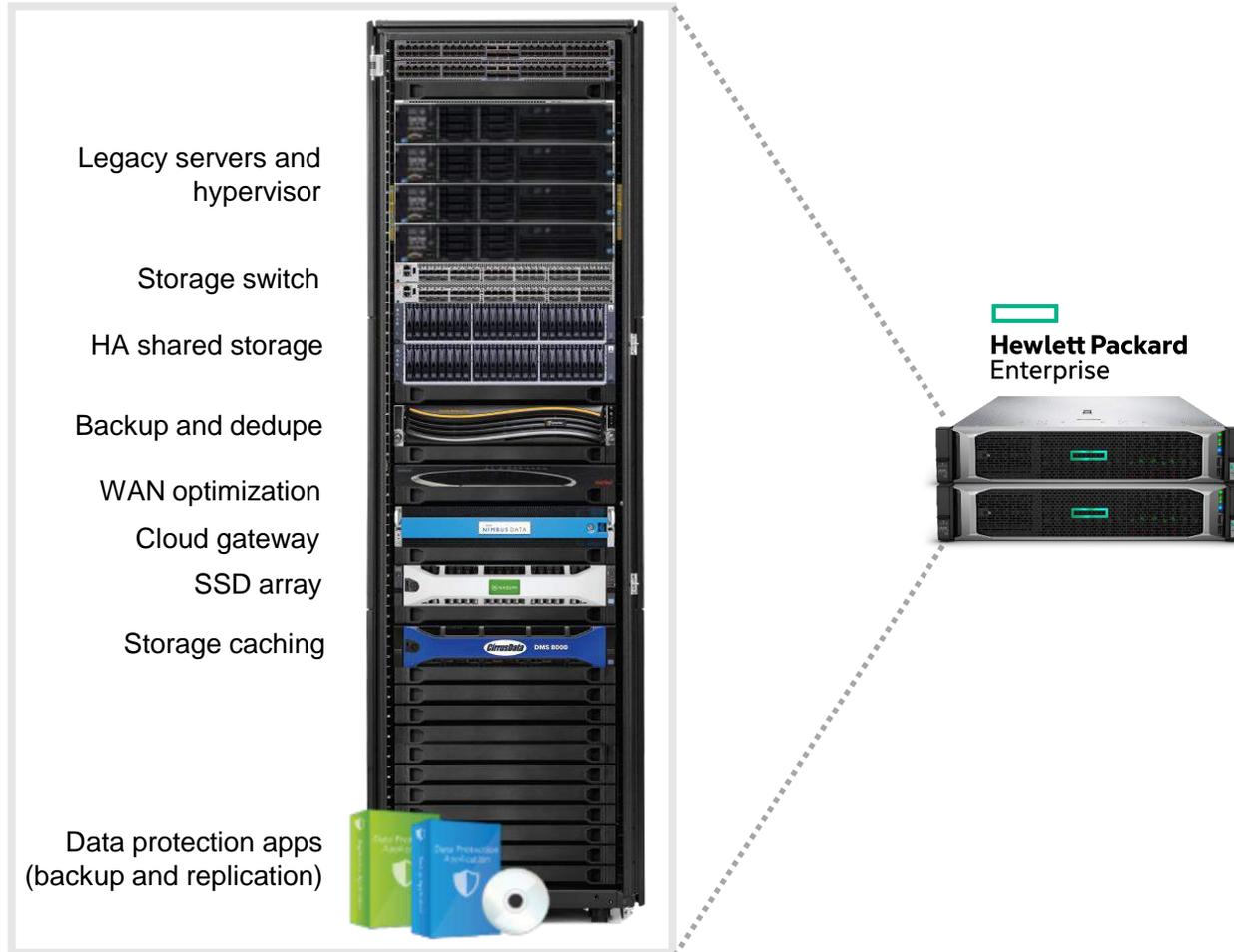
o valor que aportam para a sua organização

**Luís Rilhó**  
Servers Category Manager  
HPE Portugal

**Fórum Novas Tecnologias 2018 | 11 de outubro | Matosinhos**

# HPE SimpliVity: the powerhouse in hyperconvergence

The industry's most powerful hyperconverged platform with best-in-class data services



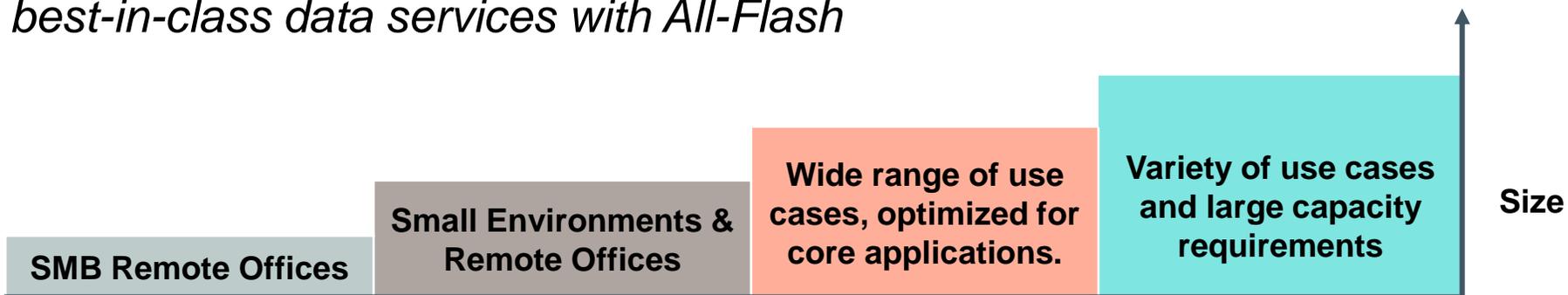
## All IT infrastructure and advanced data services in a single building block.

- Global VM-Centric Management and Mobility
- Integrated hypervisor runs core apps on x86 resource pool
- Performance enabled by data locality and inline dedupe, compression
- Built-in Resiliency, Backup, and DR with ability to rapidly recover
- Accelerated Data Efficiency
- Reduced costs compared to legacy IT
- Multi-cloud ready: Deploy apps in minutes with a few clicks

# HPE SimpliVity 380: Most powerful hyperconverged All-Flash portfolio



*Unite best-in-class data services with All-Flash*



	Extra Small	Small	Medium	Large/Extra Large
CPU	Latest Intel Xeon Scalable Processor Family spanning single, dual socket and multi-cores			
Memory	HPE Smart Memory DDR4 spanning various configurations up to 1436 GB			
Effective Capacity	3 – 6 TB	6 – 12 TB	12 - 25 TB	Large: 20 - 40 TB Extra Large: 40 - 80 TB
Storage Configurations*†	5 x 960 GB SSD RAID-5	5 x 1.92 TB SSD RAID-5	9 x 1.92 TB SSD RAID-6	Large: 12 x 1.92 TB SSD Extra Large: 12 x 3.84 TB RAID-6
Common Features	Accelerated Inline Dedupe/Compression, High Availability, Redundant Power, VM-centric Policy-based Backup/Recovery/DR, Replication, VM Mobility, Integrated Management via hypervisor (VMware, MSFT SCVMM)			

# HPE Simplivity - Multiple Hypervisor Support

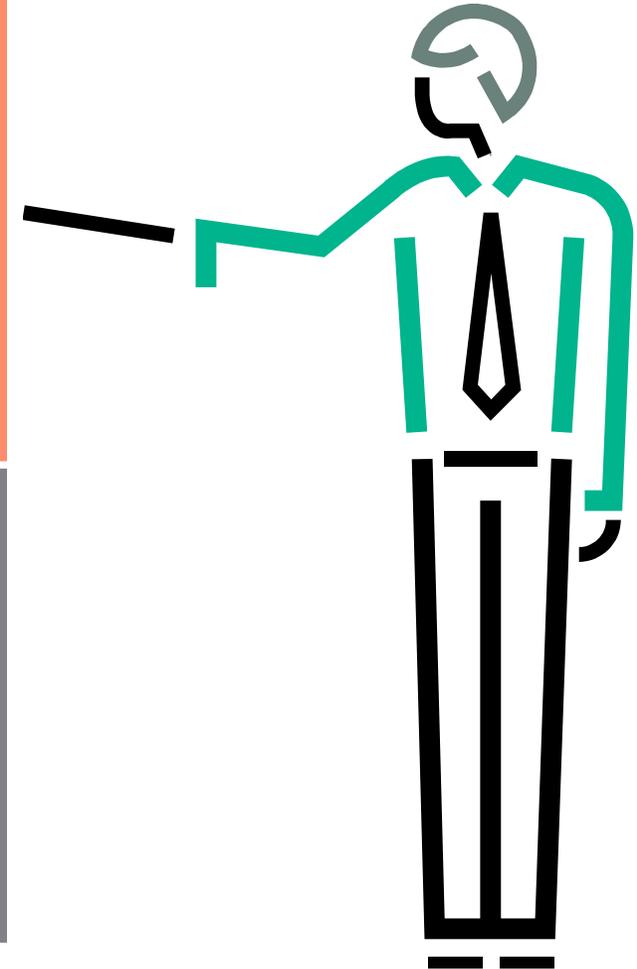
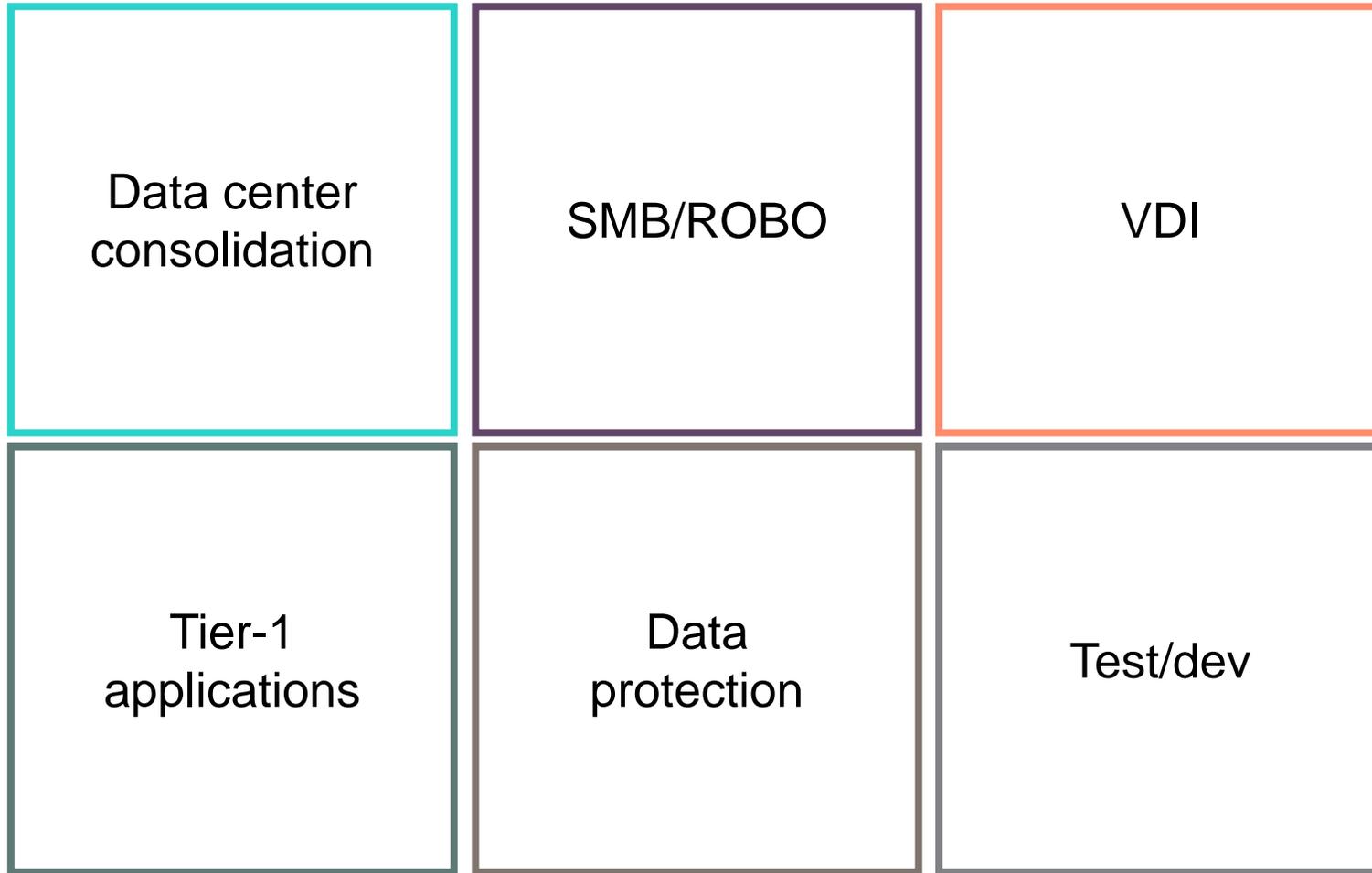


## Multiple Hypervisor Support

Vmware vSphere

Microsoft Hyper-V

# Top use cases for HPE SimpliVity and Hyperconverged



# HPE SimpliVity HyperGuarantee



**HyperEfficient** 90% capacity savings across all of your storage including backup.

**HyperProtected** 60-seconds or less on average for local backup or restore a 1 TB VM.

**HyperSimple** 3 clicks to backup, restore, clone or move a VM from a single console.

**HyperManageable** 60-seconds or less on average to create or update backup policies for 1000s of VMs across dozens of remote sites from a single console.

**HyperAvailable** Add or remove a local or remote HPE SimpliVity system without downtime, without interruption to local or remote backups, and without reconfiguration of backup policies or IP addresses

# HPE Proliant Gen10 – the worlds most secure Industry Standard Server

**Agility**

A better way to deliver business results

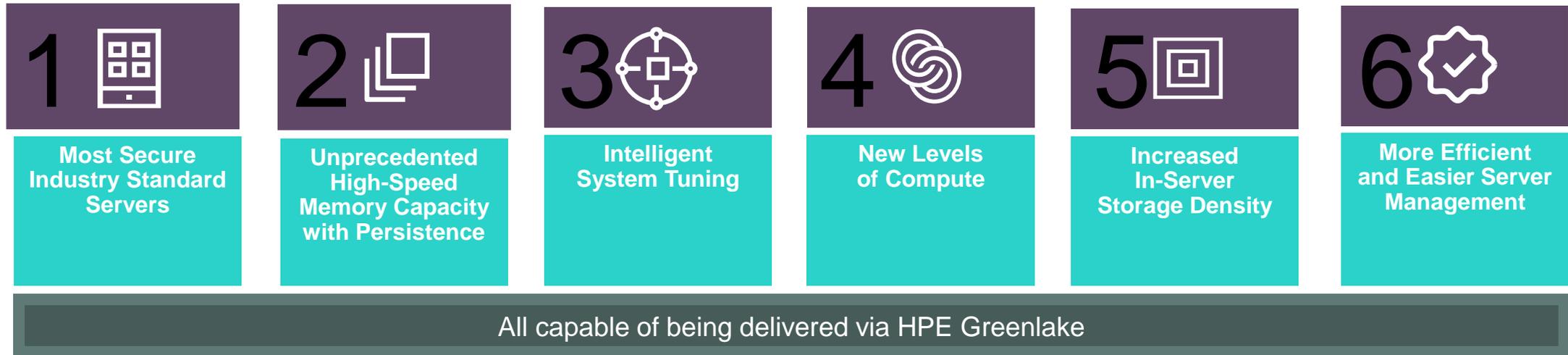
**Security**

A better way to protect your business and data

**Economic control**

A better way to consume and pay only for what you use

## Gen10 Technology Pillars



# HPE Intelligent Systems Tuning

a new set of revolutionary capabilities controlled through iLO



**Jitter Smoothing\*** through HPE patented technology

**Key Benefit:** Mitigates processor frequency fluctuation which can **improve overall workload throughput** above turbo mode. For multiple segments, particularly financial institutions and live streaming applications

**Core Boosting\*** is unique to HPE

**Key Benefit:** It enables higher performance across fewer processors which can result in significant savings in licensing cost from Oracle or Microsoft, **up to \$100K in annual savings** – available in future release



**Workload matching**

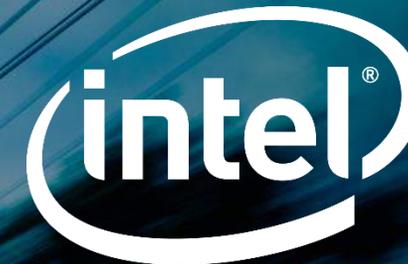
**Key Benefit:** Leverages preconfigured workload profiles to automatically tune server settings and deliver **up to a 9% performance improvement** over server default settings



# Obrigado



**Hewlett Packard  
Enterprise**



# Estudo de Caso GAB

Renovação Datacenter

**Hélio Gonçalves**  
Diretor de Sistemas de Informação  
Grupo Alves Bandeira

**Francisco Duarte**  
Administrador de sistemas  
Grupo Alves Bandeira

**Fórum Novas Tecnologias 2018 | 11 de outubro | Matosinhos**

# Grupo Alves Bandeira



Trazido até si pela HPE e pela Intel®

# Grupo Alves Bandeira



# Grupo Alves Bandeira



**EMPRESA 100% NACIONAL COM NEGÓCIOS EM TODO O MUNDO**

**50 MAIORES GRUPOS DO PAÍS**

**+ 40 ANOS DE EXPERIÊNCIA**

**+ 700 COLABORADORES**

**+ 400 MILHÕES DE EUROS DE FATURAÇÃO ANUAL**

**+ 150 POSTOS DE NORTE A SUL DO PAÍS**

# PROPOSTA 360°

  
**Hewlett Packard  
Enterprise**

  
**alves bandeira**

  
**petroibérica**

  
**ab lubs**



**PARCEIRO**

  
**ab tyres**

**OZ** ENERGIA

  
**Hewlett Packard  
Enterprise**



Trazido até si pela HPE e pela Intel®

# Grupo Alves Bandeira

## – EQUIPA DE IT

- 6 elementos
- Gestão Infraestruturas
- Gestão Software
- Programação / Desenvolvimento interno
- Helpdesk interno e postos

# Projecto

## Renovação Datacenter



Trazido até si pela HPE e pela Intel®

# Necessidades | Problemas existentes

- Disponibilidade 100%
  - Abastecimentos frota
  - aplicações clientes | CRM
  - aplicações internas
- Redimensionar o DR
- Alterar arquitectura Backups
  
- Performance Software Gestão / Facturação
- Escassez recursos hardware
  - Memória, disco, disponibilidade...



# Objectivos

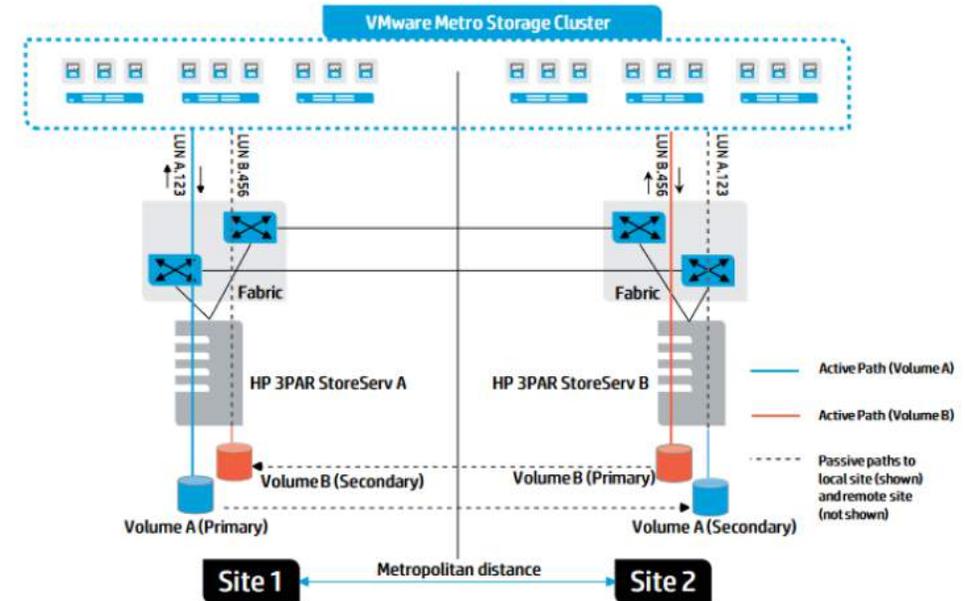
- Consolidação da infraestrutura
- Redundância do Datacenter
- Disponibilidade aplicacional perto dos 100%
- Maior facilidade de gestão da infraestrutura
- Optimização licenciamento
- Upgrade do S.O. existente
- Visão a 5 anos
- Optimizar e diversificar o backup

# Decisão tecnológica

- Porquê esta arquitectura?
- Porquê HPE / 3PAR?
- Porquê replicar
- VMWARE
- VEEAM



HPE 3PAR StoreServ 8000 Storage



# Implementação

- Horário de paragem 23h às 05h
- O parceiro RIS2048
  - Rapidez, know-how, boa calendarização e suporte
- A equipa de IT da Alves Bandeira
  - Apoio na implementação
- Migração / Conversão Hyper-V | VMWare
- Máquinas novas (Fileserver, AD)
- Vantagens da nova solução
  - velocidade, escalabilidade, facilidade de gestão.

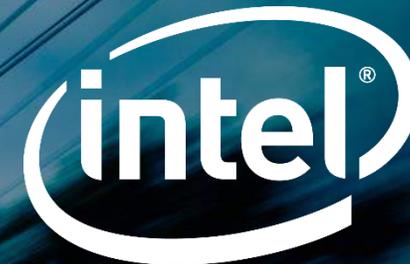


# Obrigado





**Hewlett Packard  
Enterprise**



# Liberte todo o potencial dos seus dados com storage inteligente

**Pedro Morais**  
Storage Category Manager  
HPE Portugal

**Fórum Novas Tecnologias 2018 | 11 de outubro | Matosinhos**

# Maximizar o potencial dos dados requiere Storage Inteligente

Novos modelos de negócio

Melhores Margens

Novos Produtos de Sucesso

Data

Potential Grows with Data

Pessoas/  
Conhecimento

Investimento

Insights

Cloud

Core

Edge

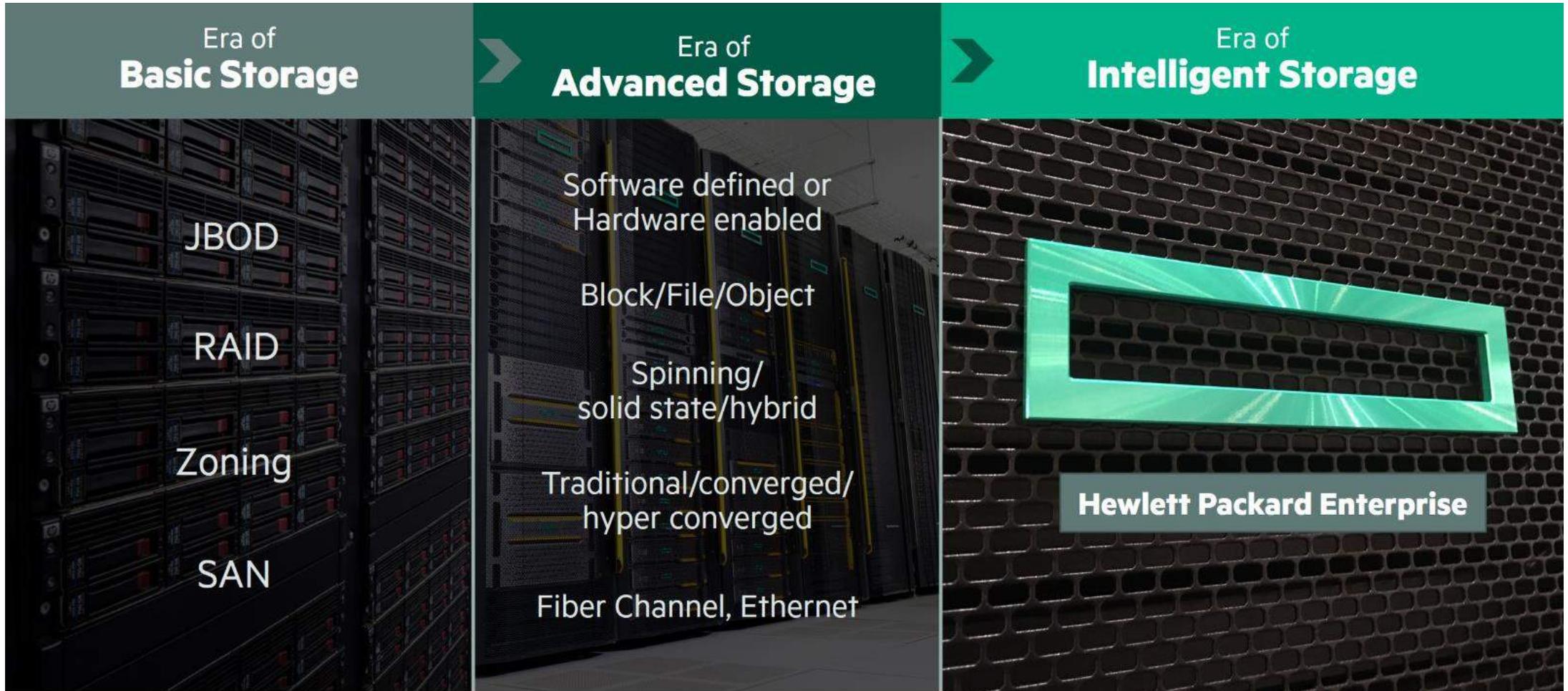
Actions

Inteligência

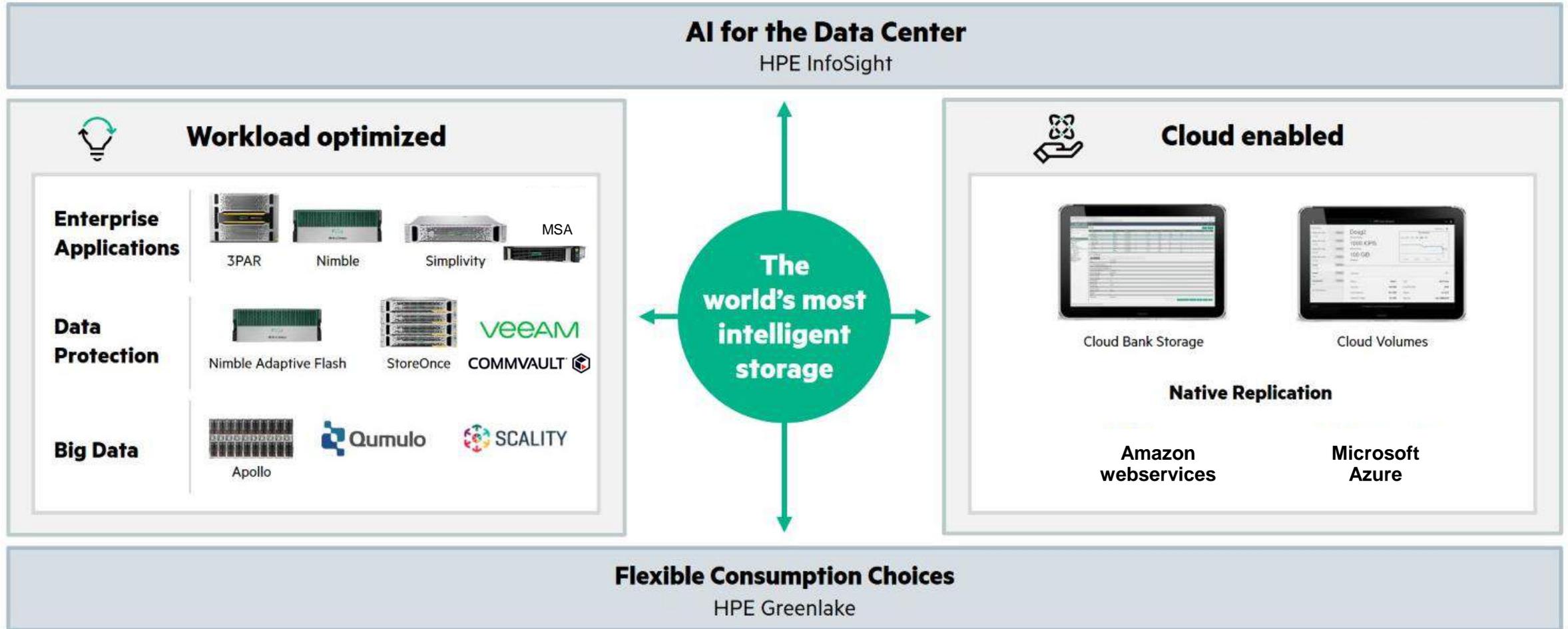
- Shifting demographics
- Customer behaviors
- Instant product feedback

- Target market
- Target behavior
- Continuous development

# Storage is entering a new era



# HPE Storage – Informed by tomorrow, inteligente today



# HPE oferece as fundações para soluções de Armazenamento Híbridas

## Predictive

**HPE InfoSight**  
A.I. for the data center

HPE Nimble Storage  
+  
HPE 3PAR

## Cloud Ready

HPE Cloud Volumes

HPE StoreOnce  
Cloud Bank Storage

Scale-out file & object  
for cloud storage archives

## Timeless

Six-nines availability and  
data compaction guarantee

SCM / NVMe Ready

Consume IT  
Flex Capacity and HPEFS

# On October 1<sup>st</sup>, HPE announced new built for cloud data protection and copy data management solutions



## Simplify Operations

HPE StoreOnce Next Generation



95% less operator time



## Cloud agility at flash speed

Nimble Storage with HPE RMC 6.0



23X faster backup, 15X faster restores



## Seamless backup to the cloud

Commvault & HPE Cloud Bank Storage

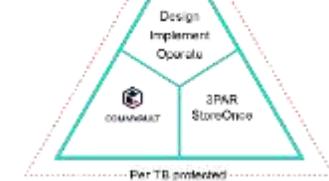


Enterprise data mobility for multi-cloud



## Optimized cloud economics

HPE GreenLake Backup & Azure services integration



30% savings with Flex Capacity

# HPE StoreOnce Next Generation Systems

with Cloud Bank Storage and Memory Expansion

**Gen4 VSA**



4 to 500 TB local  
**Up to 1 PB**  
**Cloud Bank Storage**

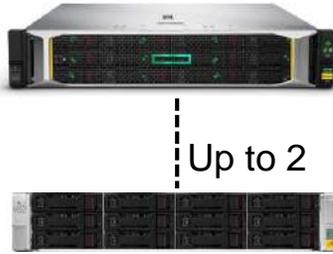
**Up to 36 TB/hr with**  
**Catalyst**  
 No IO modules

**3620**



16 to 31.5 TB local  
**Up to 63 TB**  
**Cloud Bank Storage**  
 BASE = 6 x 4 TB HDDs  
 UPGRADE = 6 x 4 TB HDDs  
**Up to 14 TB/hr with**  
**Catalyst**  
 Up to 4 I/O modules

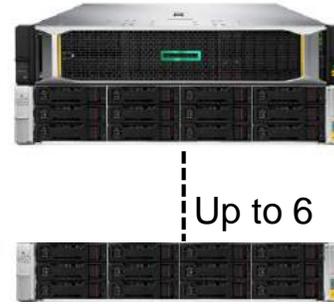
**3640**



Up to 2

36 - 108 TB local  
**Up to 216 TB**  
**Cloud Bank Storage**  
 BASE = 12 x 4 TB HDDs  
 UPGRADE = D3650 w/  
 12 x 4 TB HDDs  
**Up to 18 TB/hr with**  
**Catalyst**  
 Up to 4 I/O modules

**5200**



Up to 6

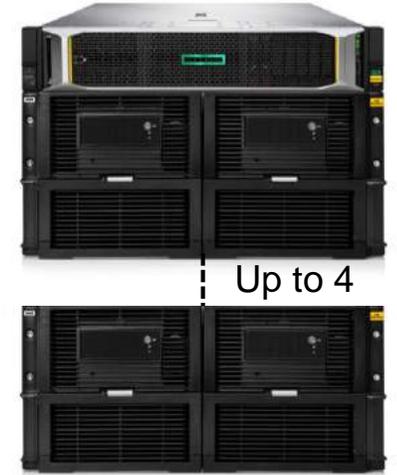
36 – 216 TB local  
**Up to 432 TB**  
**Cloud Bank Storage**  
 BASE = NO data storage  
 UPGRADE = up to 6 D3650  
 w/ 12 x 4 TB HDDs  
**Up to 33 TB/hr with**  
**Catalyst**  
 Up to 4 I/O modules

**5250**



36 – 864 TB local  
**Up to 1728 TB**  
**Cloud Bank Storage**  
 BASE = NO data storage  
 UPGRADE = up to 2 x  
 D6020 JBOD enclosures  
 w/ up to 140 x 4TB or 8TB  
 HDDs with hot spares  
**Up to 41TB/hr with**  
**Catalyst**  
 Up to 4 I/O modules

**5650**



Up to 4

72 – 1728 TB local  
**Up to 3456 TB**  
**Cloud Bank Storage**  
 BASE = NO data storage  
 UPGRADE = up to 4 x  
 D6020 JBOD enclosures  
 w/ up to 280 x 4TB or 8TB  
 HDDs with hot spares  
**Up to 47TB/hr with**  
**Catalyst**  
 Up to 4 I/O modules



# Obrigado