

ABSA University HPE Servers & Storage

Javier Cárdenas

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- Hiperconvergencia
- Composable
- OneView



Hyperconvergencia?



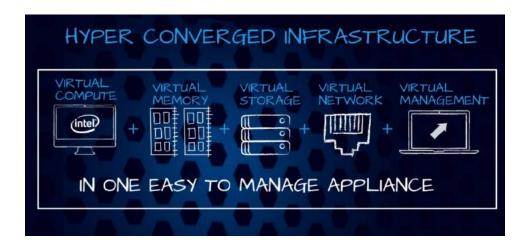


VS

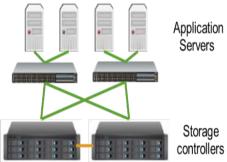


Que es Hyper-convergencia?



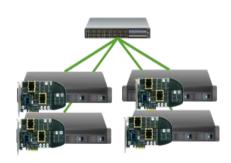


Traditional Storage



Storage is separate from the application servers

Hyper-Converged



Application Servers share their storage



La evolución de la hiperconvergencia

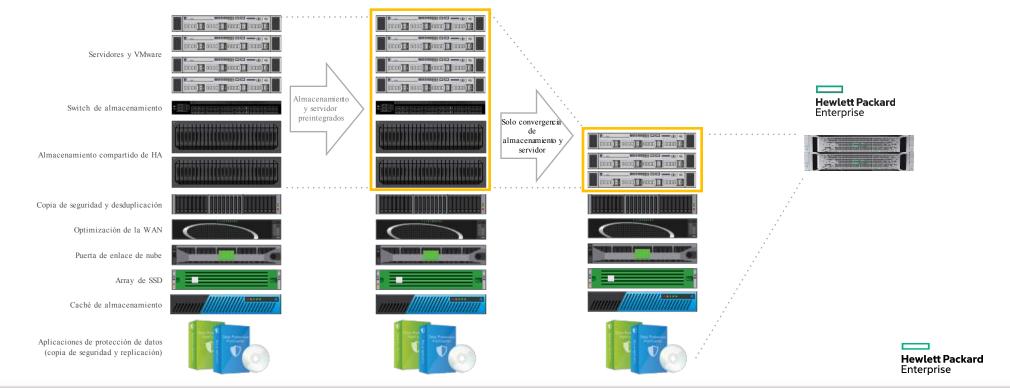


Conjunto heredado

Sistemas integrados

Otras soluciones iperconvergentes

HPE SimpliVity 380



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Appliance HPE Simplivity













HPE Proliant DL380 Gen10

HPE Omnistack Accelerator Card

HPE Omnistack OVC



Vmware ó Hyper-V(Feb 2018)

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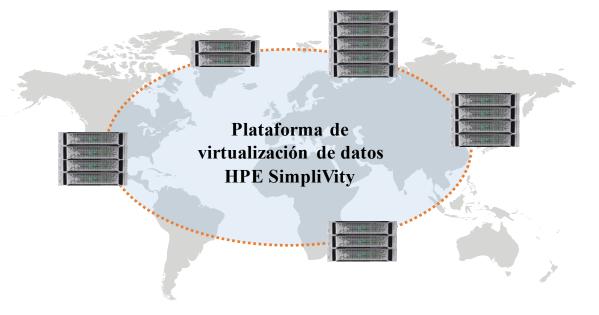
Plataforma de virtualización de datos HPE **SimpliVity**Una arquitectura de datos

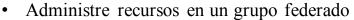
moderna



Eficiencia de datos garantizada

Administración y movilidad globales centradas en las VM





- Mueva datos entre sitios de manera fluida
- Elimine los recursos aislados





Compresión?



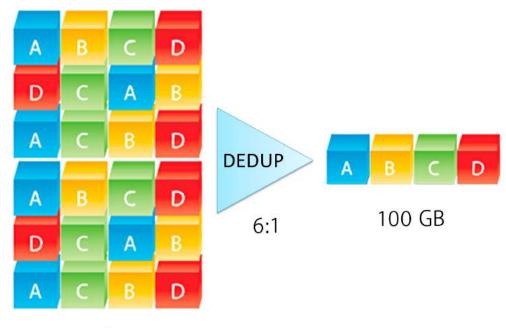


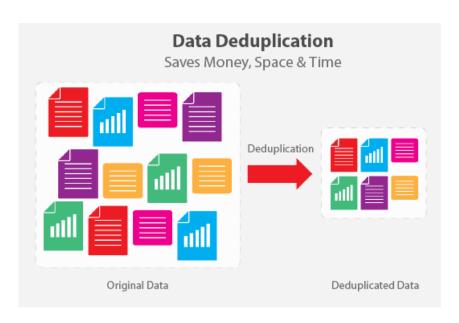
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De duplicación?







600 GB



Plataforma de virtualización de datos HPE SimpliVity



Eficiencia de datos garantizada

- Compresión y deduplicación siempre en funcionamiento
- Todos los datos al inicio, globalmente
- Descarga en el acelerador de OmniStack
- Ahorros de capacidad del 90 % garantizados en el almacenamiento primario y las copias de seguridad

40:1

Los clientes de SimpliVity cuentan con un promedio de **eficiencia de datos de 40:1**, y la mitad de ellos obtienen aumentos de rendimiento superiores a un 50 %



Backup? Disaster Recovery?







Plataforma de virtualización de datos HPE SimpliVity



Resiliencia, copias de seguridad y recuperación ante desastres incorporadas

- Copias de seguridad lógicas completas casi sin gastos de gestión
- Restauración en 60 segundos de VM de 1 TB (garantizada)
- RTO y RPO pormenorizados, de horas a segundos
- DR fuera del sitio sencilla y económica
- Protección de datos RAIN + RAID

51 %

de los clientes que utilizan la protección de datos incorporada de SimpliVity eliminaron las soluciones de copias de seguridad o replicación de terceros (IDC)*

70 %

Analyze the Future

de mejora en copias de seguridad/recuperaci ón y DR informada por los clientes de SimpliVity (IDC)* **57 %**

de los clientes de SimpliVity **redujeron el tiempo de recuperación** de días u horas a <u>minutos</u> (TechValidate)**



Plataforma de virtualización de datos HPE SimpliVity



Administración y movilidad globales centradas en las VM

- Administración centrada en las VM y basada en políticas
- Sin LUNS, recursos compartidos ni volúmenes
- Operaciones de clic con el botón derecho del mouse
- Integración con herramientas nativas
- Vista única de todos los centros de datos y todas las sucursales y oficinas remotas (ROBO)



HPE SimpliVity simplifica la administración de la infraestructura Datacom







+ copias de seguridad de terceros para una recuperación operativa

Software de respaldo

Equipo para respaldo (discos)

+ automatización de la replicación y la recuperación ante desastres

> vmware* Site Recovery Manager

Zertø

+ optimización de la WAN

riverbed







Administración centrada en las VM



Alineación de los datos con las VM administradas a través de vCenter



Solo algunos clics para:



Analyze the Future

- Interfaz de usuario simple e intuitiva
- Sin LUNS, recursos compartidos ni volúmenes
- Empodera a los generalistas de TI y administradores de VM
- Herramientas e interfaces familiares, como vCenter, vRealize y UCSD

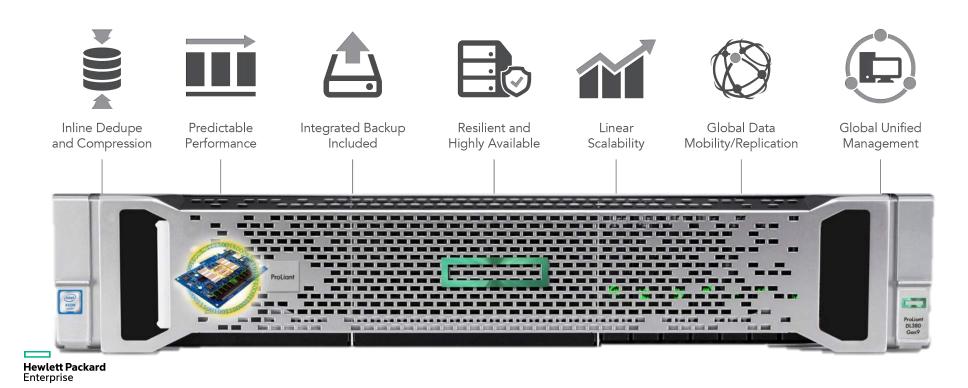
Más de la mitad (57%) de los clientes se han beneficiado de un aumento medio del

53 %
en la productividad del personal

HPE Simplivity – La plataforma mas completa de hyperconvergencia



Software Defined... Hardware Accelerated

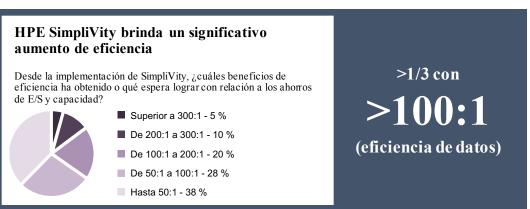


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Datos de uso validados de manera independiente







>50 %
(mejoras de rendimiento)

Soporte de categoría empresarial líder del sector



Equipo de soporte de categoría empresarial

- Competencia técnica integral y comprobada
- Más de 50 años de experiencia en liderazgo

Ejecución y satisfacción líderes del sector

- Satisfacción general: 9,5 de cada 10 (vs. 8,8 del sector)¹
- Obtención del 96 % de los SLA

POINTNEXT

Respuesta y escalamiento de misión crítica

- Tiempos de respuesta P1 de menos de 20 min (vs. hasta 150 min del sector)¹
- Escalamiento rápido y coordinado

Acceso de una capa/una llamada

- Ingenieros experimentados
- Centros de soporte en Westborough, MA; Raleigh, NC; Cork, Irlanda

Accesibilidad y capacidad globales

- Líneas gratuitas mundiales
- Soporte en 12 idiomas
- Respuesta local a nivel mundial

Tecnología de soporte remoto proactivo OmniWatch

- Supervisión de estado automatizada
- Alertas en tiempo real
- Diagnóstico remoto



¹Encuestas internas de satisfacción del cliente de 2015 y datos de referencia de TSIA de 2015.

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HyperGuarantee* de HPE SimpliVity



Rendimiento, protección y resiliencia de categoría empresarial, con una economía de

puber preficiente: ahorre un 90 % de capacidad en las copias de seguridad y el almacenamiento combinados

- **Hiperprotegido**: en menos de un minuto se puede completar una copia de seguridad local o restaurar una VM de 1 TB
- **Hipersimple**: solo se requieren tres clics para restaurar, mover, clonar o hacer una copia de seguridad de una VM desde una sola consola
- **Hipermanejable**: en menos de un minuto se pueden crear o actualizar políticas de copia de seguridad para miles de VM en decenas de sitios
- **Hiperdisponible**: agregue o sustituya sistemas SimpliVity OmniStack sin tiempo de inactividad en sitios locales o remotos
 - No se interrumpen las copias de seguridad de SimpliVity locales o remotas
 - No es necesario reconfigurar las políticas de copia de seguridad de SimpliVity para los sitios locales o remotos
 - No es necesario volver a introducir direcciones IP en los sitios remotos



TARROUAR ALVERY

^{*}La HyperGuarantee de HPE SimpliVity se aplica a los productos SimpliVity OmniStack y al nuevo producto HPE SimpliVity 380 con OmniStack.



Simplifique la TI hibrida con una infraestructura moderna definida por software

(software-defined modern infrastructure)





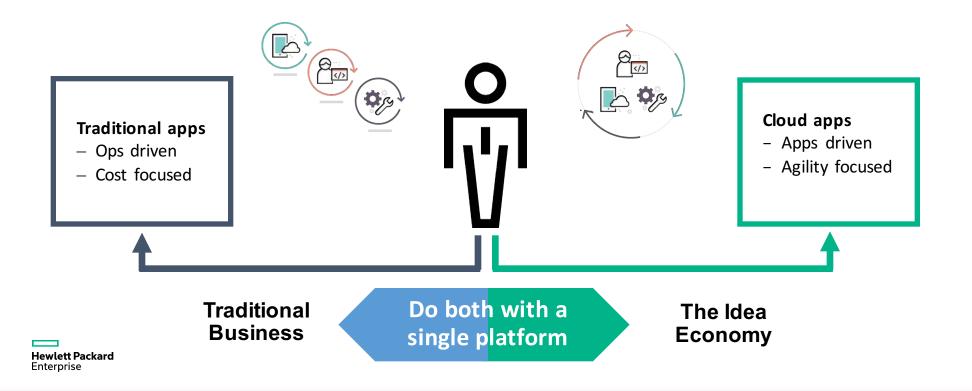
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IT must now support both traditional and new apps



Two infrastructure models are not sustainable



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HPE Composable Infrastructure

Software-defined modern infrastructure



Single line of code to abstract every

Bare metal interface for Infrastructure

Full infrastructure programmability



Composable infrastructure

Unified API

Software-defined intelligence Fluid resource pools

Physical, virtual, and containers

disaggregated resource pools

Auto-integrating of resource capacity

Fluid resource pools

Single infrastructure of

Hewlett Packard Enterprise



Template-driven workload composition



element of infrastructure

Unified API

as a Service

Non-disruptive, frictionless operations

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A new category of infrastructure is needed to power the Idea Economy



Composable Simplify Infrastructure as a Hyper-Service converged Hardware & Software architected as one Application optimized Fluid IT Simplify deployments Software defined everything • Remove complexity by Converged Physical, virtual and containerized eliminating SAN workloads Fluid virtual IT Improve staff · Software defined storage productivity **Traditional** Virtual workloads Masks some complexity with people and software Siloed Infrastructure Preconfigured physical IT • Complex processes · Hardware defined **Composability** · Static, siloed IT Targeted workloads · Silo defined · Physical, virtual, and containerized workloads

Composable Infrastructure is the engine for the Idea Economy

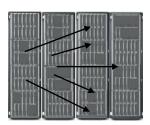


REDUCE

over provisioning and CAPEX

Precisely compose any compute with any storage pool

- Quickly recompose across racks and rows in seconds
- SDS, DAS and SAN in the infrastructure



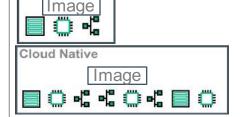
DEPLOY

at cloud-like speed

Power up to a portal in minutes

- Self-discovery, autointegration of all resources
- Bare metal through OS provisioning in seconds
- Compose disaggregated stateless resources

ERP

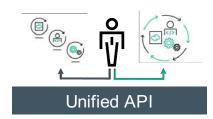


DEVELOP

more apps, faster

Program Infrastructure the way you want

- Single line of code for full infrastructure programmability
- Stand up infrastructure in minutes not months



UPDATE

firmware seamlessly

Frictionless operations reduce operational effort

- Templates define how the infrastructure needs to function
- Single firmware/drivers updates aligned to maintenance window

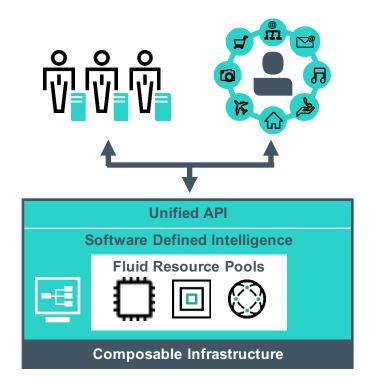


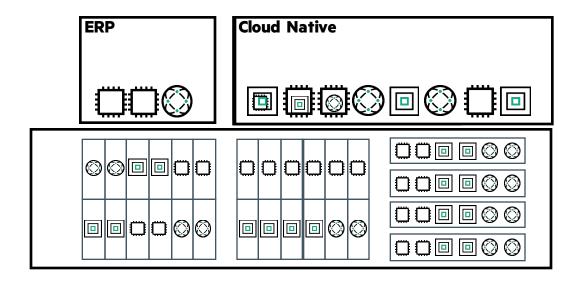
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Composable Infrastructure: The power of Infrastructure as Code



Compose and recompose - optimized to the needs of the application





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Single infrastructure for all your applications and operational models







Enterprise Apps (ERP, DB, VM Farms)

- Built in high availability
- Ability to compose and re-compose compute and SAN, DAS as one



Hybrid Cloud (IaaS, Bare Metal Portal)

- Cloud speed provisioning

 | Cloud speed | Cloud speed
- Fluid resource pools with flexible ratios
- Automation through the composer and Image Streamer

Big Data

- Internal storage density
- Massive bandwidth



Cloud Native Apps/ DevOps

- · Infrastructure as code
- Unified API
- · Bare metal portal,
- Fluid resource pools with flexible ratios
- Automation through the composer and Image Streamer



Hyper-Converged

- Fluid pools/flexible ratio of compute and storage
- Native SDS/VSA
- Internal storage density

Pay as you grow flexible capacity

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HPE Synergy



Una sola plataforma diseñada para la infraestructura Composable



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Pass to Composable Infrastructure



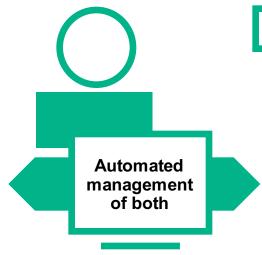
Ease of management and interoperability across the infrastructure

Pass to Composable

Converged Blocks with Composable attributes providing value to your existing infrastructure



HPE BladeSystem,HPE ProLiant DL, HPE OneView, HPE StoreVirtual VSA, HPE 3PAR, HPE ConvergedSystem + HC, OpenSwitch software defined fabric



Fully Composable

A new category of infrastructure designed to accelerate application delivery in both traditional and new IT environments



HPE Synergy



Continuity and investment protection of tools, integration, and process

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HPE Synergy Composable Infrastructure

Composer powered by OneView

Integrated software-defined intelligence to self-discover, auto-integrate and scale from racks to rows.



Composable Compute

Provides the performance, scalability, density optimization, storage simplicity, and configuration flexibility



Composable Frame

Everything needed to run applications, so IT can be quickly setup and consumed.
Auto-integrating makes scaling simple and automated at rack/rowscale







Composable Fabric

Rack scale multi-fabric connectivity eliminates standalone TOR switches



Composable Storage

High-density integrated storage to compose any compute with any storage (SDS, DAS, SAN)

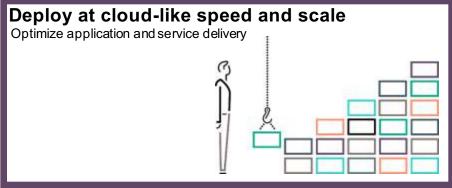


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HPE Synergy makes Hybrid IT simple

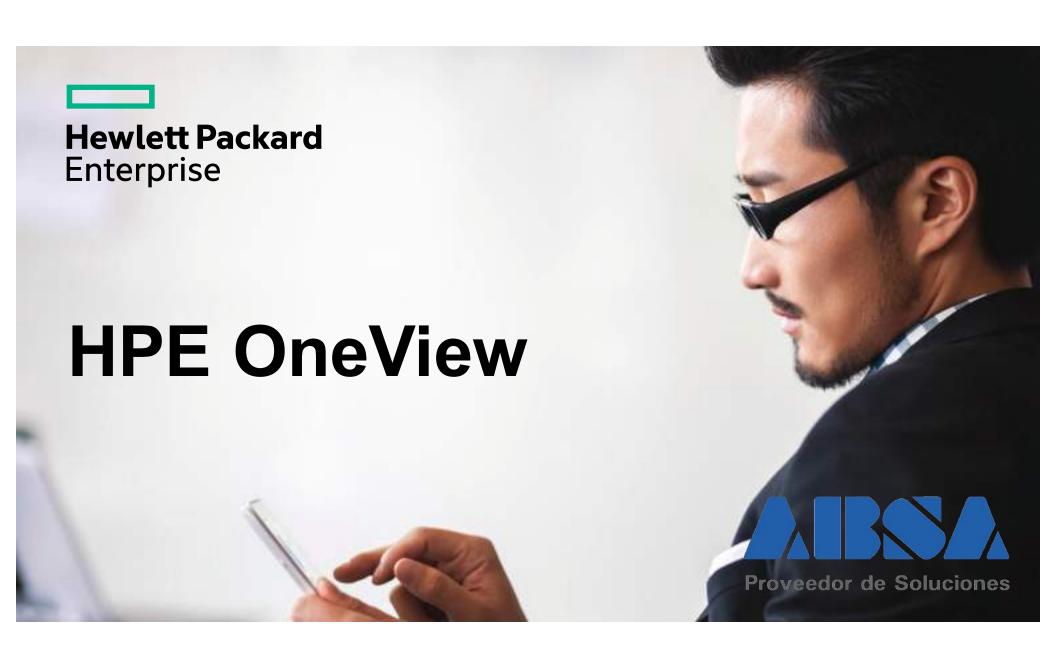












Miles de Dispositivos





Se necesita gestión unificada

Tokyo New York Berlin Chicago

Hewlett Packard
Enterprise

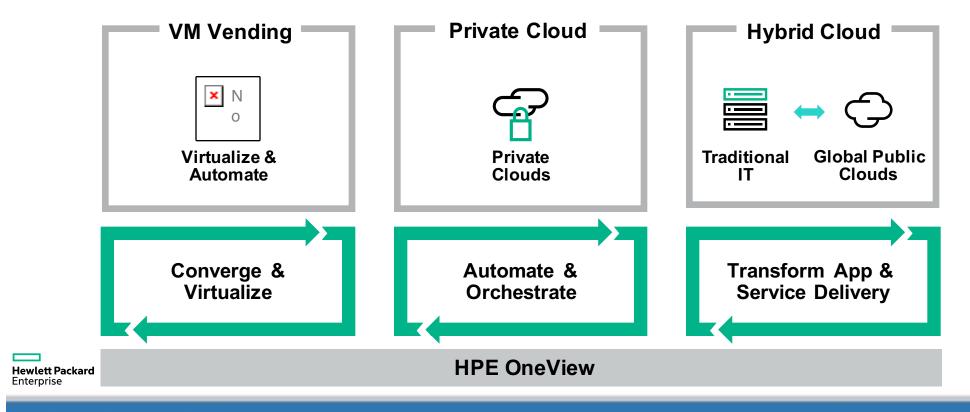
Multiples centro de datos distribuidos

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Se necesita gestión común en toda la infraestructura Alban Datacom



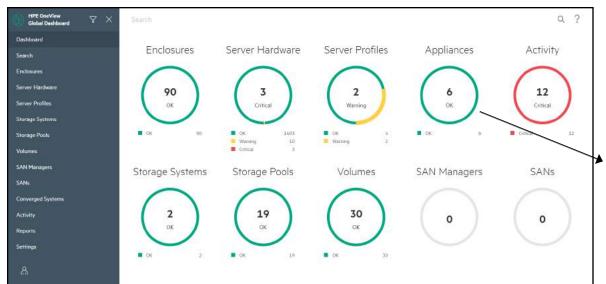
Acelere la transformacion hacia la TI Hibrida

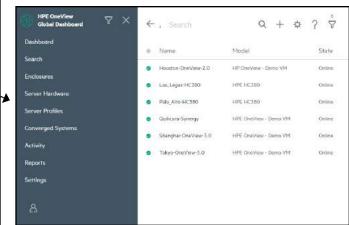


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HPE OneView Global Dashboard en acción







1

Monitor/Manage your Synergy, c-Class, DL, ML, Apollo, HC380 systems AS ONE 2

Scale to manage '000s of devices across the world

3

Instant access to common repository for alerts and inventory data

4

One click access to HPE OneView Management, iLO and OA access

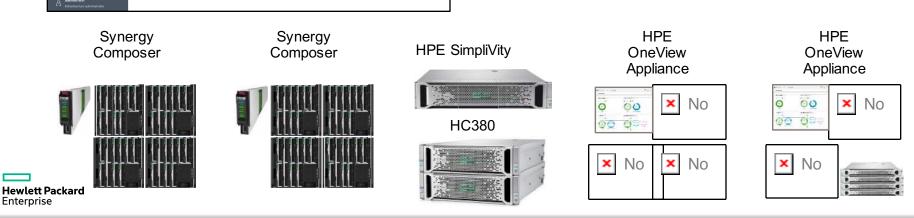
Unify management with HPE OneView Global Dashboard

Supporting up to 25 appliances and thousands of systems





- Provide unified view of health, alerting, and key resources managed by HPE OneView, including C-Class, DL, Apollo, HC380, HPE SimpliVity and ML350 Gen9/Gen10
- Instant search results for devices of interest
- In-context launch to HPE OV / iLO with single sign-on
- Integrated reporting (start with basics and enhance)
- HPE OneView versions 2.00, 3.0, 3.1 and 4.0 are supported
- Delivered as a virtual appliance (similar to HPE OneView)



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Features



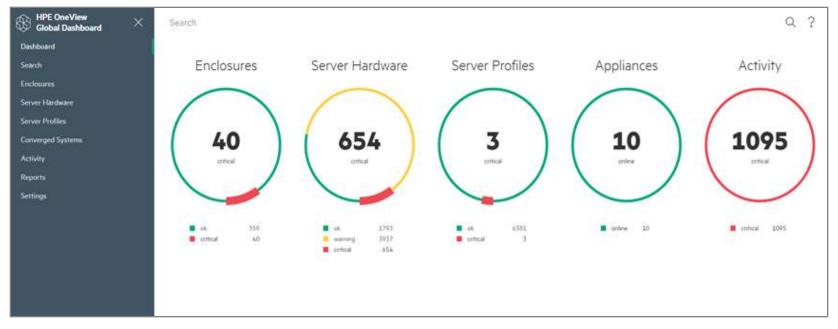
- Dashboard
- Health status
- Resources support
 - Server Hardware
 - Server Profile
 - Converged Systems
 - Storage Systems
- Single sign-on
- Search
- Customizable Dashboard
- Groups and Filtering
- Hardware Support
- Reports
- Setting Actions





Health status





Hewlett Packard Enterprise Green A healthy status

An event has occurred that might

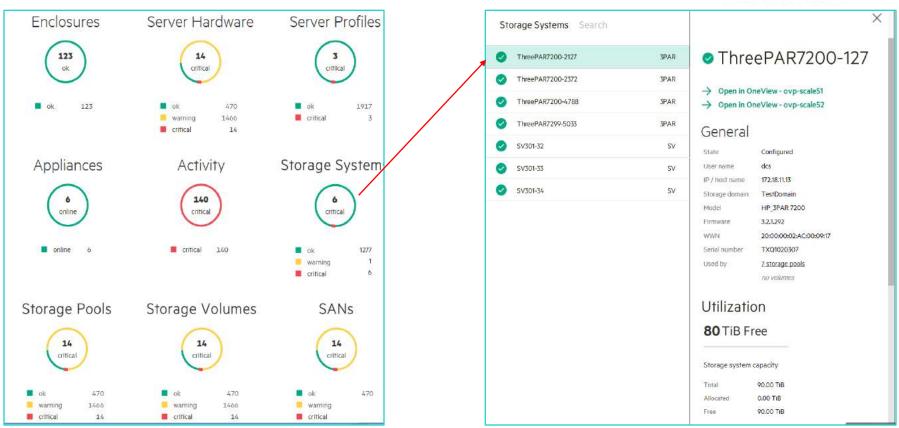
Yellow require your attention

A critical condition that requires

Red your immediate attention

Resources support – Storage Systems



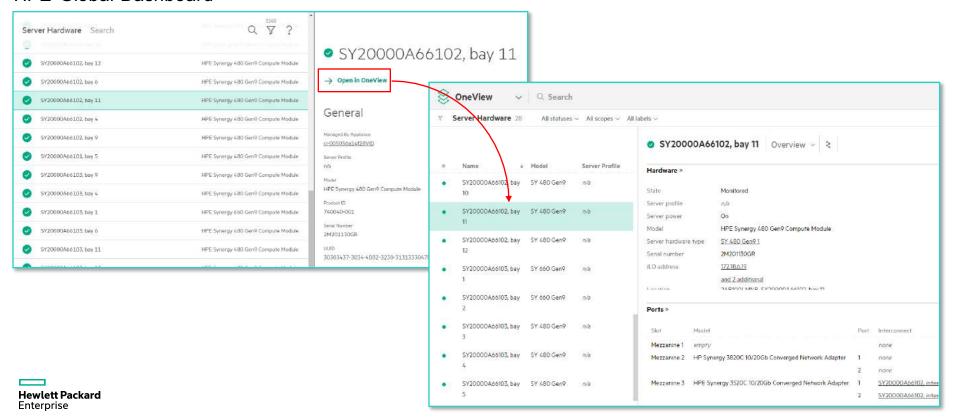


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Single Sign-on - OneView



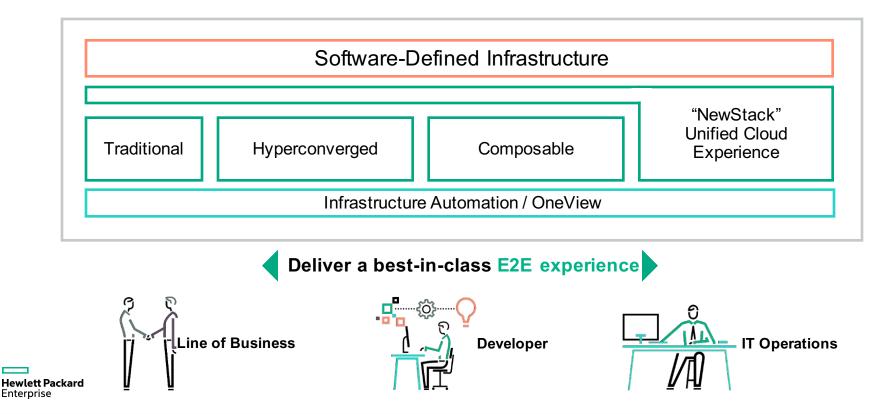
HPE Global Dashboard



Delivering software-defined infrastructure



Making Hybrid IT simple



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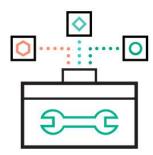
HPE OneView: The foundation for a software-defined data center

Transform HPE ProLiant, Apollo and 3PAR into Software-defined infrastructure









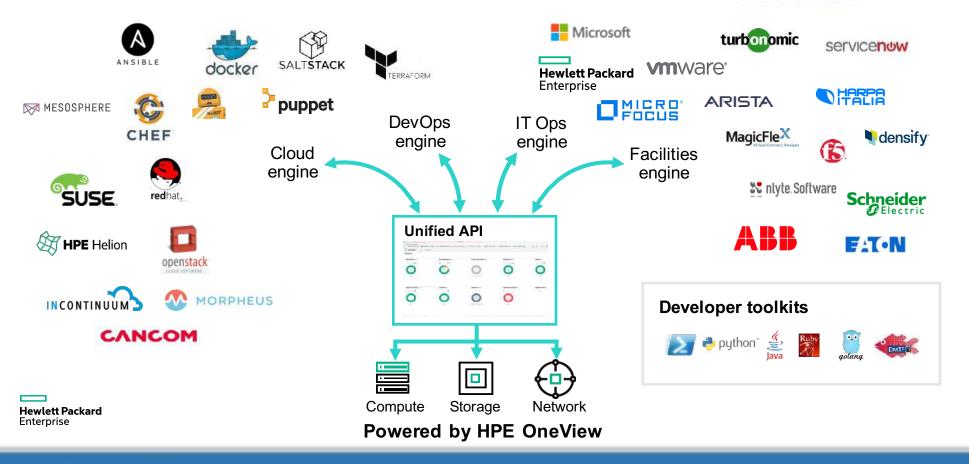
Deploy
Infrastructure Faster

Simplify
Lifecycle Operations

Increase Productivity

Composable infrastructure: Your infrastructure as code, backed by the industry's broadest partner ecosystem





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Gracias

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