



# HPE ProLiant Gen9 with VMware vSphere 6.0

World-leading platform for deploying virtual  
infrastructure



## Delivering real-world results in virtualized environments

HPE ProLiant Gen9 servers are transformational tools that take the necessary shape to meet the demands of supporting your VMware ecosystem. These revolutionary servers are:

- **Converged**—Define, move, and scale resources without having to deal with physical system attributes.
- **Software-defined**—When software takes over, a server can be utilized for processing, storing, or communicating information, and the system can change as your business needs evolve.
- **Cloud-ready**—Provision workloads instantly and reallocate them seamlessly across private and public clouds.
- **Workload-optimized**—Proactively changing, adjusting, and reprovisioning workloads based on business needs and application conditions.

## Capitalize on the idea economy

### Industry-leading platforms help you transform to a hybrid infrastructure

The idea economy is characterized by a new style of application, designed specifically for mobility and cloud service delivery. To run at optimal levels, these apps require next-generation IT architectures engineered for all-new levels of flexibility, security, scalability, and openness. Finding the right mix of infrastructure is critical to adopting the new IT operating/delivery models that can respond to escalating demands for speed, scale, and risk management.

Together, Hewlett Packard Enterprise and VMware can help you find the right combination of infrastructure and software to power the diversity of applications and business requirements across your organization. HPE ProLiant Gen9 servers with VMware vSphere® 6.0 is a proven combination that empowers you to create and deliver new value—instantly and continuously.

Working in tandem, HPE ProLiant Gen9 servers with VMware vSphere 6.0 deliver the right compute for the right virtualization workload at the right economics, every time. Using HPE ProLiant Gen9 servers with vSphere 6.0, you can achieve a better virtualization experience through:

- **Dynamic workload acceleration**—Turbo-charge VMware vSphere 6.0 performance with HPE ProLiant Gen9 servers, which converge storage, compute, and I/O.
- **Automated energy optimization**—Drive down costs by maximizing the use of space, power, and cooling.
- **24x7 proactive service and support**—Trust a single source of accountability: HPE.
- **Installation and start up services**—Benefit from ITSM assessment for Virtualization Services, Health Check Analysis for VMware Virtual Servers, and HPE Education Services for ProLiant and VMware.

## What's new?

### HPE ProLiant Gen9 servers

The right compute for the right virtualization workload at the right economics

### VMware vSphere 6.0

Delivering breakthrough capabilities

#### 3X compute capacity<sup>1</sup> and lower total cost of ownership<sup>2</sup>

- More compute and storage capacity
- Right-sized compute with flexible choices
- Lower energy and floor space consumption

#### Compute

**Increased scalability**—Virtual machines (VMs) will support up to 128 virtual CPUs (vCPUs) and 4 TB virtual RAM (vRAM); hosts will support up to 480 CPU and 12 TB of RAM, 2048 virtual machines per host, and 64 nodes per cluster

**Expanded support**—Expanded support for the latest x86 chip sets, devices, drivers, and guest operating systems

**Amazing graphics**—NVIDIA GRID vGPU delivers the full benefits of NVIDIA<sup>®</sup> hardware-accelerated graphics to virtualized solutions

**Instant clone**—Built-in technology lays the foundation to rapidly clone and deploy virtual machines, as much as 10X faster than what is possible today<sup>3</sup>

#### 66X faster service delivery<sup>4</sup>

- Automated lifecycle management
- Faster virtual machine provisioning
- Rapid cloud deployment

#### Storage

**Transform storage for your VMs**—VMware vSphere Virtual Volumes™ enable your external storage arrays to become VM-aware

#### 4X faster workload performance<sup>5</sup>

- Better compute, memory, and I/O performance for database applications
- Optimized storage performance for compute and read-intensive workloads
- Increased networking performance and lower latency for financial services

#### Network

**Network I/O control**—New support for per-VM Distributed vSwitch bandwidth reservations to guarantee isolation and enforce limits on bandwidth

**Multicast snooping**—Supports IGMP snooping for IPv4 packet and MLD snooping for IPv6 packets in VDS; improves performance and scale with multicast traffic

**Multiple TCP/IP stack for VMware vSphere vMotion<sup>®</sup>**—Provides a dedicated networking stack for vSphere vMotion traffic; simplifies IP address management with a dedicated default gateway for vSphere vMotion traffic

#### Availability

**vSphere vMotion enhancements**—Perform non-disruptive live migration of workloads across distributed switches and VMware vCenter™ servers and over distances of up to 100 ms RTT

**Replication-assisted vSphere vMotion**—With active-active replication set up between two sites, you can perform a more efficient vSphere vMotion, resulting in huge time and resource savings (as much as 95% more efficient, depending on the size of the data)<sup>3</sup>

**Fault tolerance (up to four vCPUs)**—Expanded support for software-based fault tolerance for workloads with up to four virtual CPUs

#### Management

**Content library**—Centralized repository provides simple and effective management for content including VM templates, ISO images, and scripts; you can now store and manage content from a central location and share it through a publish/subscribe model

**Cross-vCenter clone and migration**—Copy and move VMs between hosts on different vCenter servers in a single action

**Enhanced user interface**—VMware vSphere Web Client is now more responsive, intuitive, and streamlined than ever before

Learn more at [hpe.com/servers](http://hpe.com/servers)

<sup>1</sup> With HPE PCIe Workload Accelerators. Based on HPE internal analysis, August 2014

<sup>2</sup> Based on HPE internal calculation, August 2014

<sup>3</sup> [vmware.com](http://vmware.com)

<sup>4</sup> Based on anonymous HPE customer results, "Achieving Organizational Transformation with HPE Converged Infrastructure Solutions for SDDC," January 2014, IDC #246385

<sup>5</sup> Based on HPE SmartCache Performance done with equivalent controller in a controlled environment, May 2014



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