VMware and HP — Together We Have Your Cloud Covered

VMware cloud solutions are an integral part of HP’s Converged Cloud strategy. HP offers VMware vCloud Suite with modular HP Converged Infrastructure solutions.

VMware vCloud® Suite from HP simplifies IT operations while delivering the best SLAs for all applications. This integrated product offering includes all the elements to build a complete infrastructure-as-a-service cloud and to operationalize customers’ VMware vSphere® virtualized environments on HP Converged Infrastructure or HP VirtualSystem for VMware solutions.

vCloud Suite is available from HP in three editions: Standard, Advanced and Enterprise. It includes the following products:

- VMware vSphere
- VMware vCloud Networking and Security
- VMware vCloud Director™ and VMware vCloud Connector™
- VMware vFabric™ Application Director™
- VMware vCenter™ Operations Management Suite™
- VMware vCenter Site Recovery Manager™

What Is VMware vCloud Suite?

VMware virtualization has helped customers dramatically reduce capital expenses through server consolidation. It has improved operating expenses through automation, and it has minimized lost revenue with reduced planned and unplanned downtime. Today enterprises also need better time to market for their products and services. Business units demand rapid access to IT resources and applications. To support these goals, IT teams need to be more agile while ensuring that datacenters can be fully monitored, managed and protected. With VMware vCloud Suite sold by HP, VMware and HP solutions enable customers to achieve the full benefits of a private or hybrid cloud—increased responsiveness, simplified operations and the best service-level agreements (SLAs)—with a single package, all from a single vendor.

How Is vCloud Suite Used?

VMware vCloud Suite with HP Converged Infrastructure brings together all the capabilities IT needs to run an agile datacenter and deliver the promise of a private or hybrid cloud.

On-Demand Virtual Infrastructure Provisioning Enabled by Software-Defined Services

vCloud Suite enables IT to rapidly provision vSphere running on HP ProLiant Gen8 servers on demand, enable provisioning of virtual machines and multitier applications within minutes and expand the capacity available to business units both onsite and offsite. vCloud Suite includes VMware vSphere Auto Deploy™. This virtual deployment capability can be used in conjunction with physical and virtual deployment joint engineering featured in HP Converged Infrastructure. Now physical and virtual deployments can be scaled on-demand. The multitenant virtual datacenters created with vCloud Director can manage the capacity of multiple vSphere clusters. This ensures flexibility,
high hardware utilization and on-demand capacity for tenants. Software-defined networking provided by vCloud Networking and Security allows virtual machines in a VMware cloud to utilize resources anywhere in the datacenter, regardless of physical networking boundaries. And with vCloud Connector, IT can be ready for unexpected demand by leveraging trusted VMware based public clouds as needed.

Taking advantage of this underlying flexibility, vCloud Director makes it easy to deliver and allow consumption of infrastructure as a service in a matter of minutes, while vFabric Application Director brings consistency and speed to the provisioning of multitier applications.

Intelligent Operations Management

As the datacenter becomes a private or hybrid cloud, operations management becomes an increasingly critical requirement. An agile environment demands elastic scale and constantly changing workloads. To proactively, not reactively, support business, IT needs intelligent capacity planning, automated performance troubleshooting and continuous compliance management.

vCloud Suite includes the comprehensive IT management capabilities of vCenter Operations Management. Performance monitoring and proactive alerting ensure that IT can react to SLA challenges in the cloud before they affect business. Capacity planning, reporting and optimization enable IT to control capacity usage and avoid capacity shortfalls. With chargeback features, IT can enforce accountability among business owners who are consuming virtual resources on demand. Configuration and compliance management detects unwanted changes and helps IT maintain continuous compliance with operational best practices and regulatory requirements.

Best SLAs for All Applications

In addition to delivering agility to business owners and optimally managing datacenter resources, IT teams are expected to provide the performance, security and disaster recovery SLAs that the business needs.

vCloud Suite is based on industry-standard vSphere virtualization, which is proven to deliver the right performance for all applications, including business-critical workloads as well as low-latency, I/O-sensitive workloads. vCloud Suite supplies network load balancers for workloads that have higher performance requirements. It also enables IT to provide flexible software-defined security services such as highly available firewalls. All virtual machines running in a vCloud Suite environment achieve availability SLAs with vCenter Site Recovery Manager, which delivers automated disaster recovery planning, testing and execution.

<table>
<thead>
<tr>
<th>Virtualization</th>
<th>vCenter Operations</th>
<th>vCenter Chargeback Manager™</th>
<th>vCenter Configuration Manager™</th>
<th>vCenter Infrastructure Navigator™</th>
<th>vFabric Application Director</th>
</tr>
</thead>
<tbody>
<tr>
<td>vSphere Enterprise Plus</td>
<td>Performance monitoring and alerting</td>
<td>Metered chargeback reporting and accountability</td>
<td>Configuration and compliance management of virtual infrastructure</td>
<td>Application discovery, dependency mapping, and management</td>
<td>Multi-tier application service catalog publishing and provisioning</td>
</tr>
<tr>
<td>vCloud Director and vCloud Connector</td>
<td>Virtualized Infrastructure with policy-based automation</td>
<td>Virtualized datacenters with multi-tenancy and public cloud extensibility</td>
<td>Software-defined networking, security and ecosystem integration</td>
<td>Continuous firewall and network availability</td>
<td>Automated disaster recovery planning, testing and execution</td>
</tr>
<tr>
<td>Standard vCloud Networking and Security*</td>
<td>vCenter Ops Advanced</td>
<td>vCenter Ops Enterprise</td>
<td>vCenter Ops Enterprise</td>
<td>vCenter Ops Enterprise</td>
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<td>Advanced vCloud Networking and Security*</td>
<td>Continuous firewall and network availability</td>
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Note: vCloud Suite editions are licensed per-CPU with no limitation on cores, VMs or vRAM.

* New Products
How does vCloud Suite and HP Converged Infrastructure Work Together?

HP integrates all editions of VMware vCloud suites with:

**HP Converged Infrastructure:** Includes HP ProLiant Gen8 Servers with vCenter management integration, HP Storage with complete vSphere storage technologies integration and HP Networking with Virtual Connect Flex Networking.

**HP VirtualSystem for VMware:** vSphere optimized, pre-integrated and comprehensive support delivers complete solutions and accelerated deployment. This solution provides an optimal path to the cloud through joint engineering integration with Cloud Infrastructure Suites.

**HP CloudSystem:** Provides automated flexing of physical resources to support vCloud and delivers integrated and automated complete Hybrid Cloud infrastructure. Pairing vCloud HP with CloudSystem delivers a customer solution that can flex both physical and virtual resources as the business needs dictate.

VMware and HP - Proven Market Leaders in Virtualization

- HP has the leading platform share for VMware deployments*
- HP has the industry’s deepest VMware integration across Servers, Storage, Networking, and Management
- VMware and HP software integration for infrastructure, virtualization and cloud management

* IDC Virtualization tracker 2012

How to Buy

VMware vCloud Suite gives IT access to a complete cloud solution with a single purchase.

**vCloud Suite Standard** – Get started with infrastructure as a service. Deliver software-defined datacenter services, including networking and security within virtual datacenters, and enable rapid, managed access to virtual resources.

**vCloud Suite Advanced** – Intelligently manage your infrastructure-as-a-service cloud. Proactive, automated management of performance, capacity, configuration and chargeback requirements improve peace of mind. A highly available firewall and network load balancer deliver security and performance SLAs.

**vCloud Suite Enterprise** – Build a complete and mature cloud for infrastructure as a service and rapid application provisioning. Deliver availability SLAs for business-critical applications with disaster recovery. Offer quick and consistent on-demand provisioning of multi-tier applications.

Support

VMware offers global subscription and support (SnS) services to all VMware customers. For customers requiring additional services, VMware and HP also offer professional services engagements on best practices and getting started with your deployment, both directly and through an extensive network of certified professionals. Learn more at:

- [http://www.vmware.com/services/](http://www.vmware.com/services/)
- [HP Support and Services (SnS)](http://www.vmware.com/services/)

Find Out More

For information or to purchase VMware products, call 1-877-VMWARE (outside North America, dial +1-650-427-5000), visit [http://www.vmware.com/products](http://www.vmware.com/products), or search online for an authorized reseller. For detailed product specifications and system requirements, refer to the product documentation.

- [HP Virtualization with VMware](http://www.vmware.com/products)
- [HP VirtualSystem for VMware](http://www.vmware.com/products)