

# VMware vCloud Suite

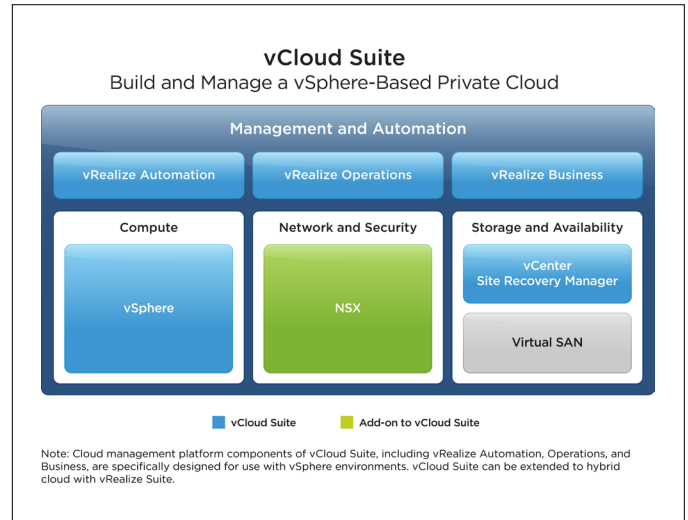
## Standard, Advanced and Enterprise Editions

### AT A GLANCE

VMware vCloud Suite® helps enterprises get to market faster by virtualizing and optimizing infrastructure, automating service delivery, and providing high availability for both traditional and new applications types, such as Big Data. This means a business running vCloud Suite responds quicker to customer demands, spends more time on innovation, and is ready for the next generation of applications.

### KEY BENEFITS

- **Efficiency:** Standardize and consolidate data centers with intelligent and policy-based IT operations to significantly reduce CapEx by up to 49 percent<sup>1</sup> and OpEx by up to 56 percent<sup>2</sup>.
- **Agility:** vCloud Suite enables IT to rapidly provision infrastructure, applications, and complete IT services, which shortens the time-to-market of new IT services from weeks to minutes. The result is increased productivity that enables both IT and the business to focus on innovation and high value-add activities.
- **Control:** vCloud Suite provides high availability for planned migrations and business continuity/disaster recovery through application, server, cluster and data center failures that reduces downtime of all applications. Policy-based governance and compliance monitoring ensure that business rules are enforced and applications have the right level of security. Service costing and usage metering of virtualized private cloud infrastructure help IT and line of business owners make important cost-benefit decisions. The result is up to 30 percent more uptime for tier 1 applications<sup>3</sup> and up to 50 percent savings of disaster recovery management costs<sup>4</sup>.



## VMware vCloud Suite is a vSphere private cloud

VMware vCloud Suite enables IT to build and manage a vSphere-based private cloud resulting in strategic IT outcomes. It does this by assembling an integrated set of products, engineered to work better together, which provide: (1) infrastructure virtualization, (2) disaster recovery and testing automation, and (3) cloud management for on-premises vSphere environments.

VMware vCloud Suite contains these integrated products:

### Infrastructure Platform

- **VMware vSphere®:** Industry leading server virtualization platform.
- **Disaster Recovery Automation with VMware vCenter™ Site Recovery Manager™:** Policy-based disaster recovery and testing for all virtualized applications.

### Cloud Management Platform

- **VMware vRealize™ Operations™:** Intelligent performance, capacity, and configuration management for vSphere environments.
- **VMware vRealize Automation™:** Self-service and policy-based infrastructure and application provisioning for vSphere environments.
- **VMware vRealize Business™:** Automated costing, usage metering, and service pricing of virtualized infrastructure for vSphere environments.

Free to use with vCloud Suite with optional production-level support available for purchase:

- **VMware Integrated OpenStack:** Integration to OpenStack APIs that enable developers to connect to VMware’s best-of-breed components (vSphere, VMware NSX™) for deploying, managing, and running OpenStack Infrastructure.

Additional Software-Defined Data Center (SDDC) offerings (not in the vCloud Suite):

- **VMware Virtual SAN™:** Software-defined storage platform that extends vCloud Suite by abstracting and pooling storage to deliver data center virtualization and standardization.
- **VMware NSX (available as add-on to vCloud Suite):** Comprehensive security and network virtualization that is fully decoupled from hardware and extends vCloud Suite by virtualizing networking to deliver data center virtualization and standardization and security controls native to infrastructure.

- **vRealize Operations and Automation Public Cloud Extensions (available as add-ons to vCloud Suite):** Extend vRealize Operations and Automation capabilities of vCloud Suite from private vSphere infrastructure to vCloud Air, Amazon Web Services or Microsoft Azure.
- **VMware vRealize Suite™:** Cloud management platform that extends vCloud Suite capabilities beyond a vSphere private cloud environment to both heterogeneous and hybrid cloud environments.
- **VMware vCloud® Air™:** Public cloud service that enables hybrid clouds. With vSphere 6.0, vCloud Air Disaster Recovery to the Cloud services are available, enabling users to failover and fallback cloud data and workloads between a vCloud Suite private cloud and vCloud Air public cloud.

## What vCloud Suite Delivers?

V CLOUD SUITE ADDRESSES THE FOLLOWING CUSTOMER PAIN AREAS	BY DELIVERING THE FOLLOWING TRANSFORMATIONAL BENEFITS AND CAPABILITIES
<p><b>Operational Inefficiency:</b></p> <ul style="list-style-type: none"> <li>• Current data centers are complex, contain too many silos, have high equipment costs, and require manual and resource-intensive management that induces high CapEx and OpEx. IT directors and managers find it difficult to reconcile IT service costs and budget in support of business needs.</li> </ul>	<p><b>Efficiency: Virtualization economics and increased productivity</b></p> <p>vCloud Suite can standardize and consolidate data centers with intelligent and policy-based IT operations to significantly reduce CapEx and OpEx. vCloud Suite improves efficiency through:</p> <ul style="list-style-type: none"> <li>• <b>Server Virtualization for both Scale-Up and Scale-Out applications:</b> Improvement in scale and configuration maximum for vSphere make it possible to virtualize and run SAP HANA and Hadoop/Big Data Workloads with significant performance gains; Instant Clone deploys new nodes faster than previously possible.</li> <li>• <b>Capacity management and optimization:</b> Proactive analysis and smart alerts identify idle and over-provisioned VMs to right-size VMs and optimize density so that IT gets more out of their infrastructure investments.</li> <li>• <b>Performance and health monitoring, Quality-of-Service management:</b> Predict and respond to infrastructure and application issues before they impact service quality to maximize infrastructure utilization and ensure applications meet their SLA and OLA targets.</li> <li>• <b>Centralized monitoring and management of infrastructure and applications:</b> Customizable dashboards and 3rd party adaptors provide flexibility to manage unique IT environments at the infrastructure, OS, and application levels.</li> <li>• <b>Superior Desktop Virtualization:</b> NVIDIA GRID Virtual Graphics Processing Unit (vGPU) enables superior 2D/3D graphics and performance for virtual desktops<sup>5</sup>; vSphere’s Instant Clone clones and deploys thousands of virtual desktops in minutes without overwhelming storage with I/O intensive operations</li> </ul>
<p><b>Infrastructure Inflexibility</b></p> <ul style="list-style-type: none"> <li>• Higher expectations from the business that demands any application on any device and solutions with instant time-to-value.</li> <li>• Business owners circumvent central IT when they can’t get a satisfactory solution from central IT, increasing “Shadow IT.”</li> <li>• Business owners want a quick and painless method for acquiring IT services from central IT.</li> <li>• It takes months or weeks to provision or scale infrastructure and applications.</li> </ul>	<p><b>Agility: Infrastructure, applications, and services at business speed</b></p> <p>vCloud Suite enables IT to rapidly provision infrastructure and applications, which shortens the time-to-value of new IT services from weeks to minutes. The result is increased productivity that enables both IT and the business to focus on innovation and high value-add activities. vCloud Suite improves agility through:</p> <ul style="list-style-type: none"> <li>• <b>Rapid infrastructure and application delivery for vSphere private clouds:</b> Provision complete infrastructure including compute, networking, security, storage, and applications across multiple hardware platforms.</li> <li>• <b>Self-service portal and catalog:</b> An on-demand “IT storefront” enabling authorized users to self-provision infrastructure, platform, and desktop services improving the time-to-value of business solutions.</li> <li>• <b>Centralized Content Library:</b> vSphere’s Content Library stores and manages VM templates, vApps, ISO images, and scripts from a central location making it easier and faster to deploy content to a host or cluster; a single administrator can now manage content for many users, providing efficient virtual machine lifecycle management; Clone and migrate VMs across hosts for simplified data center management.</li> </ul>

VCLoud Suite Addresses the Following Customer Pain Areas	By Delivering the Following Transformational Benefits and Capabilities
<p><b>Downtime and Security Weaknesses</b></p> <ul style="list-style-type: none"> <li>High complexity related to managing availability, security and performance leads to poor system and application health and frequent critical system downtime.</li> <li>After downtime, there is long mean time to resolution (MTTR) that directly impacts business productivity.</li> <li>Growing number of next-generation applications and devices that must be supported increase security and privacy concerns.</li> </ul>	<p><b>Control: Business-aware control for unique IT environments</b></p> <p>vCloud Suite provides high availability and business continuity/disaster recovery through application, server, cluster and data center failures that reduces downtime of all applications. Policy-based governance and compliance monitoring ensure that business rules are enforced and applications have the right level of security. The vCloud Suite gives control to IT with:</p> <ul style="list-style-type: none"> <li><b>Protection for all applications with policy-based disaster recovery management:</b> Reliably migrate VMs and automate site availability workflows for testing, failover, planned migration and fallback through centrally managed recovery plans that are simple to keep up to date.</li> <li><b>Policy-based provisioning and governance:</b> Role-based allocation of IT resources governed by costs, capacity, and business rules with support for approval and lifecycle management workflows.</li> <li><b>Rules-based configuration and monitoring of compliance:</b> Protect every virtualized workload with custom security and compliance policies that follow workloads across data centers.</li> <li><b>Proactive analysis and smart alerts:</b> Operational analytics provide rapid discovery and root-cause analysis of IT issues for substantial reductions in downtime, MTTI, and MTTR.</li> <li><b>Business Insight:</b> Automated infrastructure costing and metering report users' consumption of virtualized infrastructure and associated costs; integrated pricing with self-service provisioning portal make infrastructure costs transparent to users before consumption.</li> <li><b>Availability for Planned Live Migration:</b> Long-distance vMotion enables migration across geographically dispersed data centers with up to 100ms round trip time.</li> <li><b>Availability for Unplanned Downtime for Mission-Critical Applications</b> Multi-processor fault tolerance eliminates downtime for workloads with up to 4-vCPU, including POS, healthcare, manufacturing, and financial services applications, which means less unplanned downtime and revenue lost</li> </ul>

## How to Buy

VMware vCloud Suite simplifies deployment and adoption of the SDDC architecture and its components with a single purchase. vCloud Suite is designed for vSphere environments and comes in three editions: Standard, Advanced, and Enterprise.

**vCloud Suite Standard** is built on the vSphere Enterprise Plus virtualization platform and adds intelligent IT operations and rapid infrastructure provisioning to provide Infrastructure-as-a-Service at lower CapEx and OpEx.

**vCloud Suite Advanced** builds on Standard's agile and secure Infrastructure-as-a-Service offering and adds cost infrastructure service costing and compliant IT that make it easy to track and show expenses and to meet security and compliance requirements.

**vCloud Suite Enterprise** is a comprehensive offering for resilient, secure, and compliant private clouds that delivers policy-based workload automation, reduces downtime, and accelerates a business solution's time-to-market.

## Support

VMware offers global subscription and support (SnS) services to all VMware customers. For customers requiring additional services, VMware also offers professional services engagements on best practices and getting started with your deployment, both directly and through an extensive network of certified professionals. <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>, or search online for an authorized reseller. For detailed product specifications and system requirements, refer to the product documentation.

- 1 Taneja Group. (August, 2014). For Lowest Cost and Greatest Agility, Choose Software-Defined Data Center Architectures, Hopkinton, MA.
- 2 Taneja Group. (June, 2014). Transforming the Datacenter with VMware's Software-defined Data Center vCloud Suite. Hopkinton, MA.
- 3 ManagementInsight(2014). Study Shows Business Experience Significant Operational and Business Benefits from VMware vCenter Operations Management Suite. Palo Alto, CA.
- 4 Forrester. (May, 2013). The Total Economic Impact of VMware vCenter Site Recovery Manager.
- 5 VMware. (November, 2014). Benchmark Conducted with Dassault Systems SOLIDWORKS application

