

VMware offers several options for implementing the software-defined data center architecture in a private data center and beyond:

vCloud Suite – Turn the data center into a private cloud based on vSphere using the software-defined data center architecture, delivering the best SLAs for all applications through software-defined services, policy-based provisioning, and automated operations management.

vCloud Hybrid Service – Gain the fastest route to a seamless hybrid cloud by extending a data center with public infrastructure-as-a-service (IaaS)—built using VMware technology enabling a software-defined data center—operated and supported by VMware and fully compatible with an existing data center environment.

Public cloud services from VMware partners – Deliver robust, secure, and flexible IT services built on the VMware foundation from a global ecosystem of certified VMware service providers.

Purpose-Built, Highly Automated Management Solutions

The robust, resilient vSphere architecture improves the uptime of business applications. Yet IT is still responsible for the ongoing management, performance, and security of these critical applications. Included in vCloud Suite, VMware vCenter™ Operations Management Suite™ acts as the control plane for the software-defined data center, providing control over both automation and operations management.

vCenter Operations Management Suite delivers intelligent operations management in physical, virtual, and cloud infrastructures from vSphere and Hyper-V to Amazon Web Services. It correlates data from applications to storage in a unified, easy-to-use management tool. The suite provides control over performance, capacity, and configuration, with predictive analytics driving proactive action and policy-based automation. VMware purpose-built operations management solutions are integrated with the vSphere hypervisor layer and are virtualization-aware to enable IT to accurately identify and proactively address infrastructure performance and capacity issues before they negatively impact the business, unlike competing management solutions that were built to solve problems in physical infrastructure.

VMware vCloud Automation Center™ provides the agility that businesses need by automating the delivery of personalized IT services. It is a single solution for application-release automation with support for various DevOps automation tools, abstracted from diverse infrastructure services. Through a self-service catalog, users request and manage a wide range of multivendor, multicloud applications, infrastructure, and custom services. Policy-based governance helps ensure that users receive the right-size resources for the task that must be performed across the service life cycle. A flexible automation approach provides agility in deploying new IT services while leveraging existing investments by mapping into current infrastructure, processes, and environments.

vSphere in combination with operations management capabilities adds value in the core areas of infrastructure management, application availability, capacity planning, and visibility across layers. In a 2014 benchmark study, key performance metrics increased by 20–40 percent. vCenter Operations Management Suite customers experienced

- 34 percent improvement in capacity utilization
- 30 percent more uptime on tier 1 applications
- 26 percent additional cost savings on IT infrastructure management

Customers also reported strong ROI, averaging 2.4 times the return on their investment for a vCenter Operations Management Suite deployment, with a majority of respondents reporting that it took fewer than six months to realize the value.¹

1. Management Insight. “Quantifying the Incremental Value of VMware vCenter Operations Management Suite,” January 2014.