

# VMware vCenter Server

Centrally Managed Virtual Infrastructure Delivered with Confidence



## AT A GLANCE

VMware vCenter Server™ provides a centralized and extensible platform for managing virtual infrastructure. vCenter Server manages VMware vSphere® environments, giving IT administrators simple and automated control over the virtual environment to deliver infrastructure with confidence.

## KEY BENEFITS

- Analyze and remediate issues quickly with visibility into vSphere virtual infrastructure.
- Deliver the security and availability of vSphere through automated proactive management features such as automated load balancing and out-of-the-box automation workflows.
- Extend virtualization capabilities using third-party ecosystem solutions.

## What Is VMware vCenter Server?

VMware vCenter Server provides centralized management of vSphere virtual infrastructure. IT administrators can ensure security and availability, simplify day-to-day tasks, and reduce the complexity of managing virtual infrastructure.

## How Does vCenter Server Work?

### Centralized Control and Visibility at Every Level

vCenter Server provides centralized management of virtualized hosts and virtual machines from a single console. It gives administrators deep visibility into the configuration of the critical components of a virtual infrastructure—all from one place.

With vCenter Server, virtual environments are easier to manage: a single administrator can manage hundreds of workloads, more than doubling typical productivity when managing physical infrastructure.

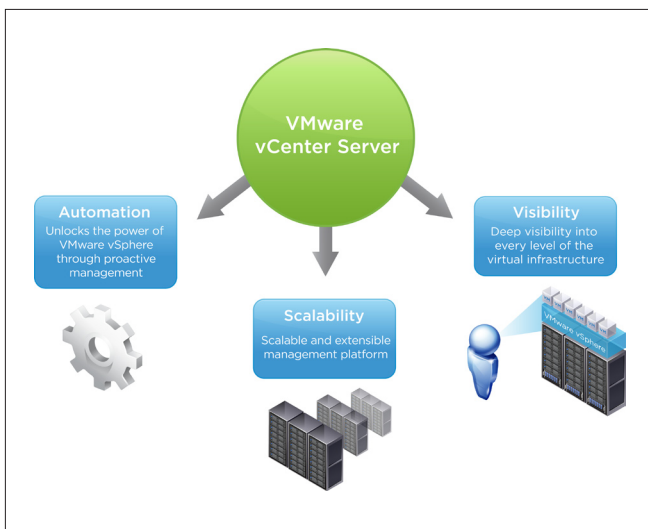
### Virtual Infrastructure Delivered With Confidence

Consistently meeting business-critical application service-level agreements (SLAs) requires automated proactive management to maximize the capabilities of vSphere. Key capabilities enabled by vCenter Server include VMware vSphere vMotion®, VMware vSphere Distributed Resource Scheduler™, VMware vSphere High Availability (HA) and VMware vSphere Fault Tolerance. VMware vCenter™ Orchestrator™ also gives administrators the ability to create and easily implement best-practice workflows.

With automated proactive management, vCenter Server allows service levels to be met by dynamically provisioning new services, balancing resources and automating high availability.

### Extensible Platform

The open plug-in architecture of vCenter Server supports a broad range of additional capabilities from VMware and its partners. Hundreds of VMware partners integrate with vCenter Server, enabling new capabilities such as capacity management, compliance management, business continuity and storage monitoring. The vCenter Server APIs also allow integration of physical and virtual management tools for maximum flexibility.



vCenter Server delivers centralized management and proactive management for vSphere virtual infrastructure.

## How Is vCenter Server Used?

Enterprises face ever-increasing pressure to deliver IT infrastructure at the lowest total costs while consistently meeting SLAs. By using centralized and proactive management of virtual infrastructure, enterprises can ensure that IT consistently meets the needs of business.

vSphere is the industry-leading virtualization platform. It enables users to run business-critical applications with confidence and respond to business requirements faster, while operating at the lowest cost possible.

## Key Features

### Centralized Control and Visibility

**VMware vSphere Web Client** – Manage the essential functions of vSphere from any browser anywhere in the world.

**Multi-hypervisor management** – Provides simplified and integrated management of VMware and Hyper-V hosts.

**vCenter single sign-on** – Simplify administration by allowing users to log in once and then access all instances of vCenter Server and VMware vCloud® Director™ without further authentication.

**Inventory search** – Have the entire vCenter Server inventory, including virtual machines, hosts, datastores and networks, at your fingertips.

**Alerts and notifications** – Support new entities, metrics and events such as datastore- and virtual machine-specific alarms. These alarms can trigger new automated workflows to remedy and preempt problems.

### Proactive Management

**Host profiles** – Standardize and simplify how you configure and manage VMware ESXi™ host configurations. Capture the blueprint of a known, validated configuration—including networking, storage and security settings—and deploy it to many hosts, simplifying setup. Host profile policies can also monitor compliance.

**Resource management for virtual machines** – Allocate processor and memory resources to virtual machines running on the same physical servers. Establish minimum, maximum and proportional resource shares for CPU, memory, disk and network bandwidth. Modify allocations while virtual machines are running. Enable applications to dynamically acquire more resources to accommodate peak performance.

**Dynamic resource allocation** – vCenter Server continuously monitors utilization across resource pools and intelligently allocates available resources among virtual machines according to predefined rules that reflect business needs and changing priorities. The result is a self-managing, highly optimized and efficient IT environment with built-in load balancing.

**Automatic restart of virtual machines with VMware vSphere HA** – Automatically restart virtual machines that have failed without manual intervention.

**Audit trails** – Maintain records of significant configuration changes and export reports for event tracking.

**Patch management** – Using the capabilities of VMware vSphere Update Manager™, enforce compliance to patch standards through automated scanning and patching of online ESXi hosts and select Microsoft and Linux virtual machines.

**vCenter Orchestrator** (included) – Simplify management by automating more than 800 tasks using out-of-the-box workflows or by assembling workflows using an easy drag-and-drop interface.

**vCenter Operations Manager Foundation** (included) – Enable the performance and health of vSphere infrastructure with deep operational insights and visibility.

### Extensible Platform

**Linked Mode** – vCenter Server provides scalable architecture and visibility across multiple vCenter Server instances, with roles, permissions and licenses replicated across the infrastructure. You can log in, view and search the inventories of all vCenter Servers simultaneously.

**APIs** – Integration with ecosystem partners extends capabilities of the virtual infrastructure.

## Find Out More

For information or to purchase VMware products, call 877-4-VMWARE, 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.

