

# VMWARE vSPHERE

## Efficient and Secure Platform for your Hybrid Cloud

### AT A GLANCE

VMware vSphere®, the industry-leading virtualization and cloud platform, is the efficient and secure platform for hybrid clouds, accelerating digital transformation by delivering simple and efficient management at scale, comprehensive built-in security, a universal application platform, and seamless hybrid cloud experience. The result is a scalable, secure infrastructure that provides enhanced application performance and can be the foundation of any cloud.

### KEY BENEFITS

- Universal application platform
- Turbo-charged application performance
- Seamless hybrid cloud experience
- Efficient management at scale
- Comprehensive built-in security
- 53% reduction in cost of IT infrastructure management
- 54% decrease in downtime of tier-one applications
- 2.4x return on investment, within a year
- 30% improvement in visibility, availability, capacity utilization, and user satisfaction with IT End to end security architecture

### About vSphere

VMware vSphere, the industry leading virtualization and cloud platform, is the efficient and secure platform for your hybrid clouds. It provides a powerful, flexible, and secure foundation for business agility that accelerates your digital transformation to hybrid cloud and success in the digital economy. vSphere supports both existing and next-gen workloads through simple and efficient management at scale, comprehensive built-in security that starts at the core, a universal application platform, and a seamless hybrid cloud experience. You can now run, manage, connect, and secure your applications in a common operating environment, across your hybrid cloud.

VMware vSphere with Operations Management™ is designed to help you achieve your unique business needs by providing better insights and better IT. It helps you improve your performance and avoid disruption, with intelligent operations from apps to storage providing simplified availability and comprehensive visibility in one place. And it helps free up time so you can focus on more strategic tasks by safely automating workload placement and resource optimization on your terms, with increased control based on pre-set customizable templates.

### What's New in Version 6.7?

- **Scale Enhancements** - New configuration maximums to support even the largest app environments.
- **VMware vCenter Server® Appliance Linked Mode** - Support linked mode for vCenter Server Appliance with embedded Platform Services Controller, link multiple vCenters with no load balancers needed.

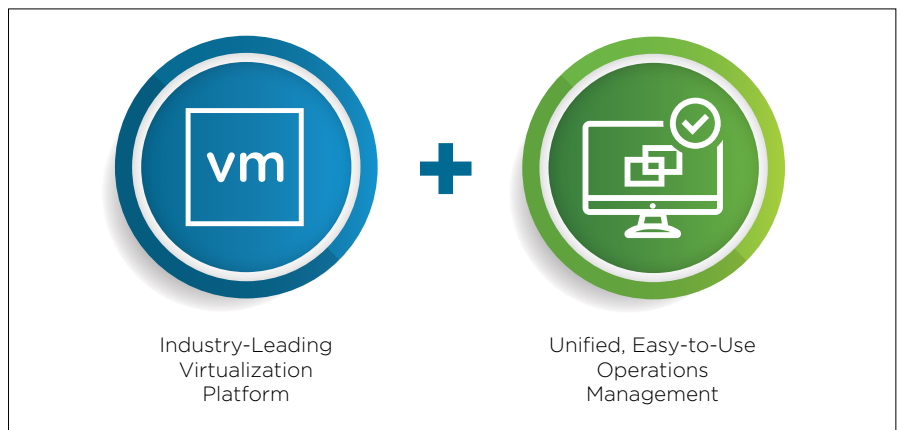


Figure 1: The industry-leading and most trusted virtualization platform with intelligent operations.

- **VMware vCenter Server® Appliance Back Up Scheduler** – Schedule vCenter Server Appliance backups. Full REST APIs for Backup and Restore
- **Single Reboot** – Dramatically reduce upgrade times by skipping a host reset
- **Quick Boot** – Reduce patching and upgrade times by rebooting the ESXi hypervisor without rebooting the physical host, skipping time-consuming hardware initialization
- **Support for 4K Native Storage** – Support high capacity drives to get enhanced performance at scale
- **Improved HTML 5 based vSphere Client** – Added functionality and easy management of connected components such as VMware NSX®, vSAN™, vSphere Update Manager (VUM) and third-party components
- **Security-at-Scale** – Policy-driven security that makes securing infrastructure operationally simple
- **Support for Trusted Platform Module (TPM) 2.0 and virtual TPM** – Enhanced security to protect the hypervisor and guest operating system against unauthorized access
- **Cross-vCenter Encrypted vMotion** – Encrypted vMotion capability across different VMware vCenter® instances and versions
- **Support for Microsoft's Virtualization Based Security (VBS)** – Run Windows VMs performant and securely on vSphere
- **NVIDIA GRID vGPU Enhancements** – Support for suspend and resume capabilities for vGPUs, to improve host lifecycle management and reduce end-user disruption
- **vSphere Persistent Memory** – Support for persistent memory, exposing it as block storage or as memory, to enhance performance for new as well as existing apps
- **Hybrid Linked Mode** – Unified visibility and manageability across an on-premises vSphere environment running on one version and a vSphere-based public cloud environment, such as VMware Cloud™ on AWS, running on a different version of vSphere
- **Per-VM Enhanced vMotion Compatibility (EVC)** – EVC is now an attribute of the VM instead of the processor generation, enabling seamless migration of workloads between on premises and the cloud
- **Cross-vCenter Mixed Version Provisioning** – Simplify provisioning across hybrid cloud environments that have different vCenter versions

| Editions                                   | vSphere Standard                                                                                                                                                                                                                                                                        | vSphere Enterprise Plus                                                                                                                                                                                                                                                                                                                                                                                                               | vSphere with Operations Management Enterprise Plus                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Use Cases                                  | Consolidate data center hardware and enable business continuity through server virtualization, VM-aware storage and live migration capabilities. Share data center resources across the boundaries of clusters. Get stronger virtualization security with enhanced endpoint protection. | Enhance application performance and availability to boost your business productivity with vSphere. Take control of resource management. Load balance workloads and prioritize access to resources to ensure top performance for your most important applications. Rapidly provision and deploy workloads in your virtual environment and move an entire running virtual machine from one physical server to another with no downtime. | Add intelligent operations management and automation to your data center through vSphere with Operations Management. Monitor and manage health and performance, plan and optimize capacity, intelligently place and rebalance workloads for application performance, use predictive analytics to get smart alerts and ensure security hardening compliance. |
| Product Components                         |                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                             |
| License Entitlement                        | Per 1 CPU                                                                                                                                                                                                                                                                               | Per 1 CPU                                                                                                                                                                                                                                                                                                                                                                                                                             | Per 1 CPU                                                                                                                                                                                                                                                                                                                                                   |
| vSphere Edition                            | Standard                                                                                                                                                                                                                                                                                | Enterprise Plus                                                                                                                                                                                                                                                                                                                                                                                                                       | Enterprise Plus                                                                                                                                                                                                                                                                                                                                             |
| vRealize™ Operations™ Edition              | -                                                                                                                                                                                                                                                                                       | -                                                                                                                                                                                                                                                                                                                                                                                                                                     | Standard                                                                                                                                                                                                                                                                                                                                                    |
| Product Features                           |                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                             |
| Server Virtualization                      | •                                                                                                                                                                                                                                                                                       | •                                                                                                                                                                                                                                                                                                                                                                                                                                     | •                                                                                                                                                                                                                                                                                                                                                           |
| VM-Aware Storage                           | •                                                                                                                                                                                                                                                                                       | •                                                                                                                                                                                                                                                                                                                                                                                                                                     | •                                                                                                                                                                                                                                                                                                                                                           |
| API and Policy Driven Storage Capabilities | •                                                                                                                                                                                                                                                                                       | •                                                                                                                                                                                                                                                                                                                                                                                                                                     | •                                                                                                                                                                                                                                                                                                                                                           |
| Support for 4K Native Storage              | •                                                                                                                                                                                                                                                                                       | •                                                                                                                                                                                                                                                                                                                                                                                                                                     | •                                                                                                                                                                                                                                                                                                                                                           |
| Single Reboot                              | •                                                                                                                                                                                                                                                                                       | •                                                                                                                                                                                                                                                                                                                                                                                                                                     | •                                                                                                                                                                                                                                                                                                                                                           |
| Quick Boot                                 | •                                                                                                                                                                                                                                                                                       | •                                                                                                                                                                                                                                                                                                                                                                                                                                     | •                                                                                                                                                                                                                                                                                                                                                           |
| Live Migration of Workloads                | Cross -vSwitch                                                                                                                                                                                                                                                                          | Cross - vCenter/<br>Long Distance/<br>Cross Cloud                                                                                                                                                                                                                                                                                                                                                                                     | Cross - vCenter/<br>Long Distance/<br>Cross Cloud                                                                                                                                                                                                                                                                                                           |
| Protect VM and Data                        | •                                                                                                                                                                                                                                                                                       | •                                                                                                                                                                                                                                                                                                                                                                                                                                     | •                                                                                                                                                                                                                                                                                                                                                           |
| Support for TPM 2.0                        | •                                                                                                                                                                                                                                                                                       | •                                                                                                                                                                                                                                                                                                                                                                                                                                     | •                                                                                                                                                                                                                                                                                                                                                           |
| Virtual TPM                                | •                                                                                                                                                                                                                                                                                       | •                                                                                                                                                                                                                                                                                                                                                                                                                                     | •                                                                                                                                                                                                                                                                                                                                                           |
| FIPS 140-2 Compliance                      | •                                                                                                                                                                                                                                                                                       | •                                                                                                                                                                                                                                                                                                                                                                                                                                     | •                                                                                                                                                                                                                                                                                                                                                           |
| Support for MSFT VBS                       | •                                                                                                                                                                                                                                                                                       | •                                                                                                                                                                                                                                                                                                                                                                                                                                     | •                                                                                                                                                                                                                                                                                                                                                           |

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For information or to purchase VMware products, call 877.4.VMWARE (outside North America, +1.650.427.5000), visit [www.vmware.com](http://www.vmware.com) or search online for an authorized reseller. For detailed product specifications and system requirements, refer to [vSphere documentation](#).

| Editions                                     | vSphere Standard | vSphere Enterprise Plus | vSphere with Operations Management Enterprise Plus |
|----------------------------------------------|------------------|-------------------------|----------------------------------------------------|
| Product Features                             |                  |                         |                                                    |
| Ensure System Uptime                         | •                | •                       | •                                                  |
| Share Data Center Resources                  | •                | •                       | •                                                  |
| Endpoint Security                            | •                | •                       | •                                                  |
| Fault Tolerance                              | 2-vCPU           | 8-vCPU                  | 8-vCPU                                             |
| vCenter Hybrid Linked Mode                   | •                | •                       | •                                                  |
| Per-VM Enhanced vMotion Compatibility        | •                | •                       | •                                                  |
| Instant Clone                                | •                | •                       | •                                                  |
| Proactive High Availability                  |                  | •                       | •                                                  |
| VM-level Encryption                          |                  | •                       | •                                                  |
| vSphere Integrated Containers                |                  | •                       | •                                                  |
| Centralized Network Management               |                  | •                       | •                                                  |
| Load Balancing                               |                  | •                       | •                                                  |
| Prioritize Resources to Virtual Machines     |                  | •                       | •                                                  |
| Rapid Deployment and Provisioning            |                  | •                       | •                                                  |
| Accelerated Graphics for Virtual Machines    |                  | •                       | •                                                  |
| vSphere Persistent Memory                    |                  | •                       | •                                                  |
| Health Monitoring and Performance Management |                  |                         | •                                                  |
| Capacity Optimization                        |                  |                         | •                                                  |
| Intelligent Workload Placement and Rebalance |                  |                         | •                                                  |
| Self-Learning and Predictive Analytics       |                  |                         | •                                                  |
| Compliance through Security Hardening        |                  |                         | •                                                  |

