

# What's New in VMware vSphere with Operations Management 5.5?

VMware vSphere® with Operations Management™ 5.5 is the latest release of the industry-leading platform with insight to IT capacity and performance. This release contains the following new features and enhancements:

## Compute

- **Scalability** – Expand vSphere configurations two times over the previous limits for physical CPUs, memory and NUMA nodes. Virtual disk files can now scale to 64TB.
- **vSphere Reliable Memory** – Place critical vSphere components (such as the hypervisor) into memory regions identified as “reliable” on supported hardware. This further protects components from an uncorrectable memory error.

## Storage

- **vSphere Flash Read Cache** – Provide a high-performance read cache layer that dramatically lowers application latency by virtualizing server-side flash.

## Availability

- **vSphere App HA** – Provide a new level of availability by enabling vSphere to detect and recover from application or operating system failure. It supports the most common applications on the market and can extend to the VMware ecosystem through its APIs.
- **vSphere Replication** – Deliver multiple point-in-time snapshots for more granular recovery. For greater scalability, multiple appliances for replication per VMware® vCenter Server™ are supported. Replication also now supports VMware vSphere Storage vMotion® and VMware vSphere Storage DRS™.
- **VMware vSphere Data Protection™** – Restore directly to a host without depending on vCenter Server. Back up and restore individual virtual-machine disk format (VMDK) files, and quiesce the vSphere Data Protection appliance for long-term retention purposes.

## Management

- **VMware vCenter Single Sign-On** – Deliver greater simplicity and security to vSphere environments with next-generation single sign-on. Users can now log in once to access all instances or layers of vCenter without the need for further authentication.

## Additional New and Enhanced Features for Applications

- **Low-Latency Application Tuning** – Tune vSphere to meet the needs of low-latency applications. This new level of customization provides the best performance possible for applications such as in-memory databases and delivers the ability to prioritize workloads.
- **vSphere Big Data Extensions** – Run Apache Hadoop on vSphere to achieve higher utilization, reliability and agility. vSphere Big Data Extensions support multiple Hadoop distributions and enable IT to seamlessly deploy, run and manage Hadoop workloads on one common platform.

## Find Out More

For information or to purchase VMware products, call 877-4-VMWARE (outside North America, +1-650-427-5000), visit <http://www.vmware.com/products>, or search online for an authorized reseller.