

## VMware vSphere Version Comparison

	vSphere 4.0	vSphere 4.1	vSphere 5.0	vSphere 5.1	vSphere 5.5	vSphere 6.0	vSphere 6.5
<b>Hypervisor</b>	ESX & ESXi	ESX & ESXi	ESXi	ESXi	ESXi	ESXi	ESXi
<b>VM HW Version</b>	7	7	8	9	10	11	13
<b>CPUs per host</b>	64	160	160	160	320	480	576
<b>RAM per host</b>	1 TB	1 TB	2 TB	2 TB	4 TB	12 TB	12 TB
<b>vCPU per VM</b>	8	8	32	64	64	128	128
<b>vMEM per VM</b>	255 GB	255 GB	1 TB	1 TB	1 TB	4 TB	6 TB
<b>VMDK Size</b>	2TB	2TB	2TB	2TB	62 TB	62 TB	62 TB
<b>Cluster Size</b>	32 Nodes	32 Nodes	32 Nodes	32 Nodes	32 Nodes	64 Nodes	64 Nodes
<b>FT Max vCPU</b>	1 vCPU	1 vCPU	1 vCPU	1 vCPU	1 vCPU	4 vCPU	4 vCPU
<b>VSAN</b>	N/A	N/A	N/A	N/A	N/A	VSAN 5.5	VSAN 6.0
<b>VMFS Version</b>	3.33	3.46	5.54	5.58	5.60	5.61	6.81
<b>Virtual Volumes (Vvols)</b>	N/A	N/A	N/A	N/A	N/A	Available with vSphere 6.0	Available with vSphere 6.5
<b>vCenter Single Sign-on</b>	N/A	N/A	N/A	Introduced with 5.1	SSO with Improved Architecture	SSO include part of Platform Services Controller	SSO include part of Platform Services Controller
<b>Management</b>	C# Client	C# Client	C# Client Web Client	C# Client Web Client	C# Client Web Client	C# Client Web Client	Web Client HTML5 Client
<b>Backup Strategy</b>	VMware Data Recovery (VDR)	VMware Data Recovery (VDR)	VMware Data Recovery (VDR)	vSphere Data Protection (VDP)	vSphere Data Protection (VDP)	vSphere Data Protection (VDP)	vSphere Data Protection (VDP)
<b>vCenter Type</b>	Windows	Windows	Windows Linux (vCSA)	Windows Linux (vCSA)	Windows Linux (vCSA)	Windows Linux (vCSA)	Windows Linux (vCSA)

<b>vCSA Scale (vPostgres)</b>	N/A	N/A	5 Hosts 50 VMs	5 Hosts 50 VMs	100 Hosts 3000 VMs	1000 Hosts 10000 VMs	2000 Hosts 25000 VMs
<b>HA Agent</b>	Automatic Availability Manager	Automatic Availability Manager	Fault Domain Manager	Fault Domain Manager	Fault Domain Manager	Fault Domain Manager	Fault Domain Manager
<b>vMotion Support</b>	<ul style="list-style-type: none"> <li>- Boundary: Datacenter</li> <li>- Shared Storage required</li> <li>- max. 5ms RTT</li> </ul>	<ul style="list-style-type: none"> <li>- Boundary: Datacenter</li> <li>- Shared Storage required</li> <li>- max. 5ms RTT</li> </ul>	<ul style="list-style-type: none"> <li>- Boundary: Datacenter</li> <li>- Shared Storage required</li> <li>- max. 10ms RTT</li> </ul>	<ul style="list-style-type: none"> <li>- Boundary: Datacenter</li> <li>- max. 10ms RTT</li> </ul>	<ul style="list-style-type: none"> <li>- Boundary: Datacenter</li> <li>- max. 10ms RTT</li> </ul>	<ul style="list-style-type: none"> <li>- vMotion across vCenters</li> <li>- vMotion across vSwitches</li> <li>- max. 100ms RTT</li> </ul>	<ul style="list-style-type: none"> <li>- vMotion across vCenters</li> <li>- vMotion across vSwitches</li> <li>- max. 100ms RTT</li> </ul>
<b>VAAI Primitives</b>	N/A	<ul style="list-style-type: none"> <li>- Atomic Test &amp; Set</li> <li>- Cloning Blocks</li> <li>- Zeroing File Blocks</li> </ul>	<ul style="list-style-type: none"> <li>- Atomic Test &amp; Set</li> <li>- Cloning Blocks</li> <li>- Zeroing File Blocks</li> <li>- UNMAP</li> <li>- Quota Exceeded Behavior</li> <li>- TP LUN Reporting</li> <li>- NFS Full File Clone</li> <li>- NFS Space Reservation</li> <li>- NFS Extended Stat</li> <li>- NFS Space Reclaim</li> <li>- NFS Fast File Clone</li> </ul>	<ul style="list-style-type: none"> <li>- Atomic Test &amp; Set</li> <li>- Cloning Blocks</li> <li>- Zeroing File Blocks</li> <li>- UNMAP</li> <li>- Quota Exceeded Behavior</li> <li>- TP LUN Reporting</li> <li>- NFS Full File Clone</li> <li>- NFS Space Reservation</li> <li>- NFS Extended Stat</li> <li>- NFS Space Reclaim</li> <li>- NFS Fast File Clone</li> </ul>	<ul style="list-style-type: none"> <li>- Atomic Test &amp; Set</li> <li>- Cloning Blocks</li> <li>- Zeroing File Blocks</li> <li>- UNMAP</li> <li>- Quota Exceeded Behavior</li> <li>- TP LUN Reporting</li> <li>- NFS Full File Clone</li> <li>- NFS Space Reservation</li> <li>- NFS Extended Stat</li> <li>- NFS Space Reclaim</li> <li>- NFS Fast File Clone</li> </ul>	<ul style="list-style-type: none"> <li>- Atomic Test &amp; Set</li> <li>- Cloning Blocks</li> <li>- Zeroing File Blocks</li> <li>- UNMAP</li> <li>- Quota Exceeded Behavior</li> <li>- TP LUN Reporting</li> <li>- NFS Full File Clone</li> <li>- NFS Space Reservation</li> <li>- NFS Extended Stat</li> <li>- NFS Space Reclaim</li> <li>- NFS Fast File Clone</li> </ul>	<ul style="list-style-type: none"> <li>- Atomic Test &amp; Set</li> <li>- Cloning Blocks</li> <li>- Zeroing File Blocks</li> <li>- UNMAP</li> <li>- Quota Exceeded Behavior</li> <li>- TP LUN Reporting</li> <li>- NFS Full File Clone</li> <li>- NFS Space Reservation</li> <li>- NFS Extended Stat</li> <li>- NFS Space Reclaim</li> <li>- NFS Fast File Clone</li> </ul>

## VMware vSphere New Feature

	vSphere 4.0	vSphere 4.1	vSphere 5.0	vSphere 5.1	vSphere 5.5	vSphere 6.0	vSphere 6.5
Hypervisor	ESX & ESXi	ESX & ESXi	ESXi	ESXi	ESXi	ESXi	ESXi
New Features	<ul style="list-style-type: none"> <li>- Distributed Switch</li> <li>- Fault tolerance</li> <li>- Enhanced vMotion</li> <li>- VMDirectPath</li> <li>- Distributed Power</li> <li>- VMXNET3</li> <li>- Hot Add VM CPU/Memory</li> <li>- Compatibility Management</li> <li>- Storage vMotion</li> <li>- Linked Mode</li> <li>- Host Profiles</li> <li>- Update Manager</li> </ul>	<ul style="list-style-type: none"> <li>- Network I/O Control</li> <li>- Array Integration</li> <li>- DRS Host Affinity</li> <li>- Storage I/O Control</li> <li>- Scripted Installation</li> <li>- Memory Compression</li> <li>- Boot from SAN</li> </ul>	<ul style="list-style-type: none"> <li>- ESXi Firewall</li> <li>- vCenter Server Appliance</li> <li>- vSphere Web Client</li> <li>- Profile driven storage</li> <li>- Auto Deploy</li> <li>- Storage DRS</li> <li>- vSphere Storage Appliance</li> </ul>	<ul style="list-style-type: none"> <li>- Single-root I/O Virtualization</li> <li>- vSphere Replication</li> <li>- vSphere Data Protection</li> <li>- vShield Endpoint</li> <li>- Sparse Virtual Disks</li> <li>- Enhanced vMotion</li> <li>- Single Sign-On</li> </ul>	<ul style="list-style-type: none"> <li>- Reliable Memory Technology</li> <li>- vSphere Big Data Extensions</li> <li>- vCenter Single Sign-On 2.0</li> <li>- vSphere App HA</li> <li>- 40Gbps NIC Support</li> <li>- vSphere Flash Read Cache</li> <li>- Virtual SAN</li> </ul>	<ul style="list-style-type: none"> <li>- Certificate Authority (VMCA)</li> <li>- Platform Services Controller</li> <li>- vMotion across vSwitches</li> <li>- Cross vCenter</li> <li>- Virtual Volumes vMotion</li> <li>- Native Linked Mode</li> <li>- Content Library</li> </ul>	<ul style="list-style-type: none"> <li>- Audit Logging</li> <li>- Encrypted vMotion</li> <li>- Proactive HA</li> <li>- vCenter Backup and Restore</li> <li>- Virtual Machine Encryption</li> <li>- HA Orchestrated Restart</li> <li>- REST API</li> <li>- vCenter Server High Availability</li> <li>- Automated UNMAP</li> <li>- vCenter Migration</li> <li>- vSphere Integrated Containers</li> </ul>