

Feature Comparison: XenEnterprise 4.0 – VMWare Virtual Infrastructure 3

	<i>XenSource XenEnterprise 4.0</i>	<i>VMware VI3 Starter</i>	<i>VMware VI3 Standard</i>	<i>VMware VI3 Enterprise</i>
<u>Hardware limits:</u>				
Number of CPUs	1-32	1-4	1-32	1-32
Maximum Memory	128GB	8GB	64GB	64GB
<u>Virtualization:</u>				
Virtualization technologies	Paravirtualization (PV) for 32-bit; hardware-assisted virtualization (HAV)	Dynamic translation (DT); HAV for 64-bit only	DT; HAV for 64-bit only	DT; HAV for 64-bit only
Guest memory models:	32bit, 32bit-PAE; 64bit	32bit, 32bit-PAE, 64-bit	32bit, 32bit-PAE, 64-bit	32bit, 32bit-PAE, 64-bit
True 64-Bit Virtualization Layer	Yes	No, mainly 32bit with some 64bit extensions.	No, mainly 32bit with some 64bit extensions.	No, mainly 32bit with some 64bit extensions.
<u>Virtual Machine Limits:</u>				
Number of vCPUs	Up to 8 for Windows Up to 32 for Linux	Limited to 1	Limited to 4 for Windows and Linux	Limited to 4 for Windows and Linux
Amount of Memory	Up to 32GB Per VM	Limited to 8GB per VM	Limited to 16GB per VM	Limited to 16GB per VM
<u>Suspend/resume:</u>	x	x	x	x
<u>Resource controls:</u>	CPU shares, CPU priority, CPU pinning, disk I/O shares, network bandwidth trottle	CPU shares, CPU pinning, memory, disk, network bandwidth trottle	CPU shares, CPU pinning, memory, disk, network bandwidth trottle	CPU shares, CPU pinning, memory, disk, network bandwidth trottle



<u>VLAN:</u>	x	x	x	x
<u>Live migration:</u>				
Supported:	x		x	x
Feature cost:	Included	n/a	Optional	Included
<u>Supported Guests:</u>				
Windows	Windows Server 2003 Windows 2000 Server Windows XP Professional	Windows Server 2003 Windows 2000 Server Windows XP Professional	Windows Server 2003 Windows 2000 Server Windows XP Professional	Windows Server 2003 Windows 2000 Server Windows XP Professional
Linux	Red Hat Enterprise Linux: 5, 4, 3 SUSE Linux Enterprise 10, 9 Debian Sarge, Debian Etch, CentOS 5, 4.5	Red Hat Enterprise Linux 4, 3, and 2.1 Red Hat Linux 7.2, 7.3, 8.0, 9.0 SUSE Linux Enterprise Server 8, 9, 10 SUSE Linux 8.2, 9.0 and 9.1; Others	Red Hat Enterprise Linux 4, 3, and 2.1 Red Hat Linux 7.2, 7.3, 8.0, 9.0 SUSE Linux Enterprise Server 8, 9, 10 SUSE Linux 8.2, 9.0 and 9.1; Others	Red Hat Enterprise Linux 4, 3, and 2.1 Red Hat Linux 7.2, 7.3, 8.0, 9.0 SUSE Linux Enterprise Server 8, 9, 10 SUSE Linux 8.2, 9.0 and 9.1; Others
<u>Storage:</u>				
Storage architectures:	SCSI, IDE, SATA, SAS, FC SAN, iSCSI SAN; NFS NAS	SCSI, SAS, NFS NAS	SCSI, SAS, FC SAN, iSCSI SAN, NFS NAS	SCSI, SAS, FC SAN, iSCSI SAN, NFS NAS
<u>Device driver support:</u>				
Driver availability	Uses native Linux drivers for wide range of device support; can bundle proprietary	Requires drivers to be ported by VMware into VMkernel; limited set of devices	Requires drivers to be ported by VMware into VMkernel; limited set of devices	Requires drivers to be ported by VMware into VMkernel; limited set of devices



<p>Guest I/O model</p>	<p>binary-only drivers from selected vendors for performance and functionality Paravirtualized storage and network drivers impose minimal I/O overhead</p>	<p>Virtual storage controllers require device emulation with significant overhead</p>	<p>Virtual storage controllers require device emulation with significant overhead</p>	<p>Virtual storage controllers require device emulation with significant overhead</p>
<p><u>Management:</u> Console</p>	<p>Multi-server (included)</p>	<p>Single-server (included), multi-server (optional, with optional agents)</p>	<p>Single-server (included), multi-server (optional, with optional agents)</p>	<p>Single-server (included), multi-server (optional, with optional agents)</p>
<p>Multi-Server Console Cost</p>	<p>Included</p>	<p>\$5000</p>	<p>\$5000</p>	<p>\$5000</p>
<p>Management System with no Single Point of Failure</p>	<p>Yes, clustered management layer with no single point of failure.</p>	<p>No, Virtual Center Server is a single point of failure.</p>	<p>No, Virtual Center Server is a single point of failure</p>	<p>No, Virtual Center Server is a single point of failure</p>
<p>Supported interfaces</p>	<p>Local and remote CLI ,XML-RPC API</p>	<p>CLI, Perl API, COM API</p>	<p>Local CLI, Perl API, COM API</p>	<p>Local CLI, Perl API, COM API</p>
<p><u>Physical-to-virtual migration (P2V):</u></p>	<p>Linux: included; Windows: via partners – starter license included</p>	<p>Optional</p>	<p>Optional</p>	<p>Optional</p>
<p><u>Enterprise virtualization management features:</u> HA Failover Load balancing</p>	<p>Q4 2007 Partners</p>	<p>n/a n/a</p>	<p>Optional Optional</p>	<p>Included Included</p>