

## Отличия VMware vSphere 5.x и 6.0 в таблицах.

<http://www.vmguru.ru/news/vmware-vsphere-5x-60-comparison>

Как вы все знаете, недавно вышла платформа виртуализации VMware vSphere 6.0, и мы много писали о ее новых возможностях (<http://www.vmguru.ru/vsphere6.php>). На одном из блогов появились полезные таблички, в которых просто и понятно описаны численные и качественные улучшения VMware vSphere 6.0 по сравнению с прошлыми версиями - 5.1 и 5.5. Приведем их тут.

Улучшения гипервизора VMware ESXi:

	VMware vSphere 5.1	VMware vSphere 5.5	VMware vSphere 6.0
Released	Sep 2012*	Sep 2013*	March 2015*
<b>Hypervisor Level Comparison - ESXi</b>			
Physical CPUs per host	160	320	480
Physical RAM per host	2 TB	4 TB	12 TB
VMs per host	512	512	1000
VMFS Version	5.58	5.6	5.61
Virtual Volumes	NO	NO	YES
Virtual SAN	NO	VSAN 5.5	VSAN 6.0
All-Flash VSAN	NO	NO	YES
VSAN Scale	NO	32 Nodes	64 Nodes
VSAN Fault Domains	NO	NO	YES

Улучшения на уровне виртуальных машин:

	VMware vSphere 5.1	VMware vSphere 5.5	VMware vSphere 6.0
<b>Virtual Machine Level Comparison</b>			
vCPU per VM	64	64	128
vMEM per VM	1 TB	1 TB	4 TB
VMDK Size	2TB	62 TB	62 TB
Cluster Size	32	32	64
FT Max vCPU	1vCPU	1 vCPU	4 vCPU
FT Supported Disk Types	Eager-Zeroed	Eager-Zeroed	Lazy-Zeroed Eager-Zeroed Thin Provision
FT Supported Features	HA, vDS	HA, DPM, SRM, VDS	HA, DPM, SRM, VDS, Hot Configure FT, H/W Virtualization, Snapshot, Paravirtual Devices, Storage Redundancy
VM Hardware Version	9	10	11

Улучшения на уровне средства управления VMware vCenter:

	VMware vSphere 5.1	VMware vSphere 5.5	VMware vSphere 6.0
<b>VMware vCenter Level Comparison</b>			
Management	vSphere Client	vSphere Web Client vSphere Client	vSphere Web Client vSphere Client
Authentication Management	Single Sign-On 5.0	Single Sign-On 5.5	Platform Services Controller
vMotion	vMotion restricted to Datacenter object	vMotion restricted to Datacenter object	vMotion across vCenters vMotion across vSwitches
vMotion Network Support	Same L2 Network	L2 Network	L3 Network
Content Library	NO	NO	YES
Certificate Authority (VMCA)	NO	NO	YES
vCenter Type	Windows Linux (vCSA)	Windows Linux (vCSA)	Windows Linux (vCSA)
vSphere Flash Read Cache	NO	YES	YES
vCenter Linked Mode	Windows only Microsoft ADAM Replication	Windows only Microsoft ADAM Replication	Windows & VCSA Native Replication
vCSA Scale (vPostgres)	5 Hosts 50 VMs	100 Hosts 3000 VMs	1000 Hosts 10000 VMs

## vSphere 6.0 -Difference between vSphere 5.0, 5.1, 5.5 and vSphere 6.0

<http://www.vmwarearena.com/vsphere-6-0-difference-between-vsphere-5-0-5-1-5-5-and-vsphere-6-0/>

vSphere 6.0 released with lot of new features and enhancements as compared to the previous versions of vSphere releases. I would really like to give a comparison of features and scalability between vSphere 5.0, vSphere 5.1, vSphere 5.5 and vSphere 6.0. Even though there are lot new features in vSphere 6.0, I tried to compare few of the important items between these vSphere Versions. Below is the difference between vSphere 5.0, 5.1, 5.5 and vSphere 6.0:

Features	VMware vSphere 5.0	VMware vSphere 5.1	VMware vSphere 5.5	VMware vSphere 6.0
VM HW Version	Virtual Hardware 8	Virtual Hardware 9	Virtual Hardware 10	Virtual Hardware 11
vCPU	32 vCPUs	64 vCPUS	64 vCPUS	128 vCPUS
VM Memory	1 TB	1 TB	1 TB	4 TB
Graphics Support	Software based 3D graphics	Hardware based 3D graphics	Improved 3D graphics Support	WDDM 1.1 GDI graphics acceleration
Cluster Nodes	32 Nodes	32 Nodes	32 Nodes	64 Nodes
VM's Per Cluster	3,000	4,000	4,000	8,000
Max CPU per Host	160	160	320	480
Max Mem per Host	2 TB	2 TB	4 TB	12 TB
Max vCPU per FT VM	1 vCPU	1 vCPU	1 vCPU	4 vCPU
vCSA with Embedded Database	5 hosts and 50 VM's	5 hosts and 50 VM's	300 Hosts and 1,000 VM's	1000 Hosts and 10,000 VM's
Content Libraray	NA	NA	NA	Content Library Introduced with vSphere 6.0
VSAN	NA	NA	VSAN 5.5	VSAN 6.0
vMotion Enhancements	vMotion Supported	vMotion without Shared Storage	vMotion without Shared Storage Long Distance vMotion(10 ms RTTs)	vMotion across vCenters vMotion across Virtual Switches Long Distance vMotion (100+ ms RTTs)
Virtual Volumes (Vvols)	NA	NA	NA	Available with vSphere 6.0
NFS Support	NFS v3	NFS v3	NFS v3	NFS 4.1 Support Multipathing and Kerberos Authentication
vCenter Single Sign-on	NA	Introduced with 5.1	SSO with Improved Architecture	SSO included as part of Platform Services Controller

I believe this post will help you to quickly refer the comparison between various vSphere version. I hope this is informative for you. Thanks for Reading!!!. Be Social and share it in social media, if you feel worth sharing it.