

VMWARE vSPHERE® FEATURE COMPARISON

ACROSS VERSIONS

KEY SCALE METRICS: MAXIMUMS	vSPHERE VERSION			
	5.5	6.0	6.5	6.7
Host per Cluster	32	64	64	64
VMs per Cluster	4000	8000	8000	8000
CPUs per Host	320	480	576	768
RAM per Host	4 TB	12 TB	12 TB	16 TB
VMs per Host	512	1024	1024	1024
vCPUs per VM	64	128	128	128
vRAM per VM	1 TB	4 TB	6 TB	6 TB
Non-Volatile Memory per Host				1 TB
Non-Volatile Memory per VM				1 TB
KEY FEATURES / CAPABILITIES	5.5	6.0	6.5	6.7
VM Mobility and Management				
vMotion	•	•	•	•
Storage vMotion	•	•	•	•
Content Library		•	•	•
Cross-vSwitch vMotion		•	•	•
Cross-vCenter vMotion		• ¹	•	•
Long-Distance vMotion		•	•	•
Cross-Cloud vMotion/Hot Migration ²		•	•	•
Cross-vCenter Mixed-Version vMotion ²		•	•	•
Cross-Cloud Cold Migration ²		•	•	•
Per-VM Enhanced vMotion Compatibility (EVC)				•

KEY FEATURES / CAPABILITIES	5.5	6.0	6.5	6.7
Resource Management				
DRS (for compute and memory)	•	•	•	•
Storage DRS	•	•	•	•
Storage I/O Controls	•	•	•	•
Network I/O Controls	•	•	•	•
Network-Aware DRS			•	•
Availability				
Fault Tolerance	1 vCPU	4 vCPU	4 vCPU	8 vCPU
vSphere Replication	•	•	•	•
HA VM Component Protection		•	•	•
Orchestrated HA Restart			•	•
Proactive HA			•	•
vCenter Server HA ³			•	•
Storage				
Virtual Volumes		•	•	•
Storage Policy-Based Management		•	•	•
NFS 4.1 support		•	•	•
Automated UNMAP			•	•
Support for 4K Native Storage				•

KEY FEATURES / CAPABILITIES	5.5	6.0	6.5	6.7
Security				
Multi-Factor Authentication		•	•	•
vSphere Security Hardening & Compliance		•	•	•
Virtual Machine Encryption			•	•
Secure Boot			•	•
Audit Quality Logging			•	•
Cross-vCenter Encrypted vMotion				•
Support for TPM 2.0				•
Virtual TPM 2.0				•
Support for Microsoft VBS, including Credential Guard				•
FIPS 140-2 Validated				•
Enhanced Applications Support				
Instant Clone		•	•	•
Nvidia GRID vGPU		•	•	•
vSphere Integrated OpenStack (VIO)		•	•	•
vSphere Integrated Containers (VIC)			•	•
Suspend & Resume for Nvidia GRID vGPU				•
vSphere Persistent Memory				•
Support for Memory Mapping for 1GB Page Sizes				•
Support for RoCE v2				•
iSCSI Extension for RDMA (iSER)				•
Support for RDMA-Infiniband				•

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Administration				
vCenter Server Appliance	Limited	•	•	•
Enhanced Linked Mode		•	•	•
Certificate Management		•	•	•
Migration to vCenter Server Appliance		•	•	•
vCenter Server Hybrid Linked Mode ⁴		•	•	•
vCenter Server Backup and Restore ³			•	•
HTML5-based vSphere Client			•	•
REST-Based APIs for vCenter Server Management			•	•
Enhanced Linked Mode for vCenter Server Appliance with Embedded Platform Services Controller™			• ⁵	•
Single Reboot Upgrades				•
vSphere Quick Boot				•
vCenter Server Appliance Backup with built-in Scheduler and Retention ³				•

1 Compatible with vSphere 6.0, U1, U2, and U3 for vMotion between same versions

2 Backwards compatible with vSphere 6.0 U3+ and vSphere 6.5 U1+

3 For vCenter Server Appliance only

4 Backwards compatible with vSphere 6.0 U3+ on-prem and with vSphere 6.5 on-prem

5 Compatible with vSphere 6.5 U2+ on-prem

