

VMWARE VSPHERE® FEATURE COMPARISON

ACROSS VERSIONS

KEY SCALE METRICS: MAXIMUMS	vSphere v5.5	vSphere v6.0	vSphere v6.5
Host per Cluster	32	64	64
VMs per Cluster	4000	8000	8000
CPUs per Host	320	480	576
RAM per Host	4 TB	12 TB	12 TB
VMs per Host	512	1024	1024
vCPUs per VM	64	128	128
vRAM per VM	1 TB	4 TB	6 TB
KEY FEATURE / CAPABILITIES	vSphere v5.5	vSphere v6.0	vSphere v6.5
VM MOBILITY AND MANAGEMENT			
vMotion®	•	•	•
Storage vMotion®	•	•	•
Content Library		•	•
Cross-vSwitch vMotion		•	•
Cross-vCenter vMotion®		•	•
Long-Distance vMotion		•	•
Cross-Cloud vMotion			•

KEY FEATURE / CAPABILITIES	vSphere v5.5	vSphere v6.0	vSphere v6.5
RESOURCE MANAGEMENT			
DRS (for compute and memory)	•	•	•
Storage DRS	•	•	•
Storage I/O Controls	•	•	•
Network I/O Controls	•	•	•
Intelligent Workload Placement & Rebalance		•	•
Network-Aware DRS			•
Predictive DRS			•
AVAILABILITY			
Fault Tolerance	1 vCPU	4 vCPU	4 vCPU
vSphere Replication	•	•	•
HA VM Component Protection		•	•
Orchestrated HA Restart			•
Proactive HA			•
vCenter Server HA			•
STORAGE			
Virtual Volumes		•	•
Storage Policy-Based Management		•	•
NFS 4.1 support		•	•
Automated UNMAP			•

KEY FEATURE / CAPABILITIES	vSphere v5.5	vSphere v6.0	vSphere v6.5
SECURITY			
Multi-Factor Authentication		•	•
vSphere Security Hardening & Compliance		•	•
Virtual Machine Encryption			•
Secure Boot			•
Audit Quality Logging			•
ENHANCED APPLICATIONS SUPPORT			
Instant Clone		•	•
NVIDIA Grid vGPU		•	•
Integrated OpenStack (VIO)		•	•
vSphere Integrated Containers (VIC)		•	•
ADMINISTRATION			
vCenter Server Appliance	Limited	•	•
Enhanced Linked Mode		•	•
Certificate Management		•	•
Migration to vCenter Server Appliance		•	•
vCenter Server Backup and Restore			•
HTML5-based vSphere Client			•
REST-based APIs for vCenter Server Management			•

ACROSS EDITIONS

USE CASES	Standard	Enterprise Plus	vSOM Enterprise Plus
Data Center Consolidation & Business Continuity	•	•	•
Enhanced Application Performance & Availability		•	•
Intelligent Operations Management & Automation			•
KEY FEATURE / CAPABILITIES	Standard	Enterprise Plus	vSOM Enterprise Plus
VM MOBILITY AND MANAGEMENT			
vMotion	•	•	•
Storage vMotion	•	•	•
Content Library	•	•	•
Cross-vSwitch vMotion	•	•	•
Cross-vCenter vMotion		•	•
Long-Distance vMotion		•	•
Cross-Cloud vMotion		•	•
RESOURCE MANAGEMENT			
DRS (for compute and memory)		•	•
Storage DRS		•	•
Storage I/O Controls		•	•
Network I/O Controls		•	•
Network-Aware DRS		•	•
Predictive DRS			•
Intelligent Workload Placement & Rebalance			•

KEY FEATURE / CAPABILITIES	Standard	Enterprise Plus	vSOM Enterprise Plus
AVAILABILITY			
Fault Tolerance	1 vCPU	4 vCPU	4 vCPU
Replication	•	•	•
vCenter Server HA	•	•	•
HA VM Component Protection	•	•	•
Orchestrated HA Restart	•	•	•
Proactive HA		•	•
STORAGE			
Virtual Volumes	•	•	•
Storage Policy-Based Management	•	•	•
NFS 4.1 support	•	•	•
Automated UNMAP	•	•	•
SECURITY			
Multi-Factor Authentication	•	•	•
Secure Boot	•	•	•
Audit Quality Logging	•	•	•
Virtual Machine Encryption		•	•
Security Hardening & Compliance			•
ENHANCED APPLICATIONS SUPPORT			
Instant Clone		•	•
NVIDIA Grid vGPU		•	•
Integrated OpenStack (VIO)		•	•
vSphere Integrated Containers (VIC)		•	•

KEY FEATURE / CAPABILITIES	Standard	Enterprise Plus	vSOM Enterprise Plus
ADMINISTRATION			
vCenter Server Appliance	•	•	•
Enhanced Linked Mode	•	•	•
Certificate Management	•	•	•
Migration to vCenter Server Appliance	•	•	•
vCenter Server Backup and Restore	•	•	•
HTML5-based vSphere Client	•	•	•
REST-based APIs for vCenter Server Management	•	•	•
PERFORMANCE & HEALTH MANAGEMENT			
Operations Dashboards, Views Reports			•
Predictive Analytics & Smart Alerts			•
Root Cause Analysis & Recommendations			•
Self-Learning Analytics & Dynamic Thresholds			•
Guided Remediation			•
Automated Remediation			•
Role Based Access Control			•
Management Pack for Storage Devices (for vSAN customers only)			•
CAPACITY MANAGEMENT			
Capacity Metering, Trending, Right-Sizing			•
Resource Optimization			•
Capacity Planning, Modeling & What-If Scenarios			•

