	VMWARE vSPHERE* VERSION				
KEY FEATURES/ CAPABILITIES	6.5	6.7	7	8	
DEVOPS SERVICES					
Application focused management			✓	✓	
VMware Tanzu® Kubernetes Grid™ Service for vSphere			✓	✓	
vSphere Pod Service			Requires NSX-T currently	Requires NSX-T currently	
Storage Service			✓	✓	
Network Service			✓	✓	
Container Registry Service			✓	✓	
VM Registry service			✓	✓	
Network Load Balancing			NSX Advanced Load Balancer Essentials included	NSX Advanced Load Balancer Essentials included	
VM Service			✓	✓	
VM Service support for GPU			✓	✓	
GPU accelerated VMware Tanzu® Kubernetes Grid™ cluster			✓	✓	
Cloud Consumption Interface				✓	
Local Consumption Interface (LCI)				✓	
Workload Availability Zones				✓	
Simplified TKG cluster lifecycle management				✓	
TKG cluster package management				✓	
Independent TKG Service				✓	
Customizable base OS images				✓	
Authentication through Pinniped				✓	
Supervisor support on vSAN stretched clusters				✓	
VM Service: Expanded VM Class configuration				~	
VM Service: Backup and restore service				✓	
Kubernetes clusters autoscaling				✓	



KEY FEATURES/ CAPABILITIES	6.5	6.7	7	8		
VM MOBILITY AND MANAGEMENT						
vSphere vMotion®	~	~	~	~		
vSphere Storage vMotion®	~	~	~	~		
Content library	~	~	~	~		
Cross-vSwitch vMotion	~	~	~	~		
Cross-vCenter® vMotion¹	~	~	~	~		
Long-distance vMotion	~	~	~	~		
Cross-cloud vMotion/ hot migration ²	✓	~	✓	~		
Cross-vCenter mixed- version vMotion ²	~	~	~	~		
Cross-cloud cold migration ²	~	~	~	~		
Per-virtual machine (VM) enhanced vMotion compatibility		~	~	~		
vMotion for Multi-Instance GPUs (MIG)			✓	~		
vMotion on Intel® Scalable I/O Virtualization devices (SIOV)				~		
RESOURCE MANAGEMENT						
vSphere Distributed Resource Scheduler™ (DRS) – for compute and memory	~	~	~	~		
vSphere Storage DRS™	~	~	~	~		
vSphere Storage I/O Control	~	~	~	~		
vSphere Network I/O Control	~	~	~	~		
Network-aware DRS		~	~	~		
Assignable hardware support for vGPU and vSphere DirectPath I/O™ initial placement			~	~		
Initial workload placement for Multi-Instance GPUs (MIG)			✓	~		
DRS support for vSphere Memory Monitoring and Remediation (vMMR)				~		
DRS automation for vGPU workloads				~		
Vendor Device Groups				✓		



KEY FEATURES/ CAPABILITIES	6.5	6.7	7	8		
AVAILABILITY						
Fault tolerance	4 vCPU	8 vCPU	8 vCPU	8 vCPU		
vSphere Replication™	✓	✓	✓	✓		
High availability (HA) VM component protection	✓	✓	✓	✓		
Orchestrated HA restart	✓	✓	✓	✓		
Proactive HA	✓	✓	✓	✓		
vCenter Server* HA¹	✓	✓	✓	✓		
vSphere HA for PMEM workloads			✓	✓		
Workload Availability Zones				✓		
STORAGE						
vSphere Virtual Volumes™	✓	✓	✓	✓		
Storage policy-based management	✓	✓	✓	✓		
NFS 4.1 support	✓	✓	✓	✓		
Automated UNMAP	✓	✓	✓	~		
Support for 4K native storage		✓	✓	✓		



KEY FEATURES/ CAPABILITIES	6.5	6.7	7	8
SECURITY				
Multifactor authentication	✓	✓	✓	✓
vSphere security hardening and compliance	~	~	~	~
VM encryption	✓	✓	✓	✓
Secure boot	✓	✓	✓	✓
Audit quality logging	✓	✓	✓	~
Cross-vCenter encrypted vMotion		✓	✓	✓
Support for TPM 2.0		✓	✓	✓
Virtual TPM 2.0		✓	✓	✓
Support for Microsoft virtualization-based security (VBS), including Credential Guard		~	~	~
FIPS 140-2 validated		✓	✓	✓
vSphere Trust Authority™			✓	✓
Identity federation with Active Directory Federation Services (ADFS)			~	~
Identity federation with Microsoft Entra ID (formerly Azure AD), Okta, and PingFederate				~
vSphere Native Key Provider			✓	✓
Confidential containers with AMD SEV-ES			✓	✓
Simplified NSX security setup from vSphere Client ³			✓	~
TLS 1.3 and Customizable Cipher Suites ⁴				✓
vSAN security hardening and compliance				✓



KEY FEATURES/ CAPABILITIES	6.5	6.7	7	8	
ENHANCED PERFORMANCE AND APPLICATION SUPPORT					
VMware Instant Clone	✓	✓	✓	✓	
NVIDIA vGPU	✓	✓	✓	✓	
vSphere Integrated OpenStack	✓	✓	✓	✓	
vMotion support for NVIDIA 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		✓	✓	✓	
Support for NVIDIA AI-Ready Enterprise Platform			✓	✓	
NVIDIA Multi-Instance GPU (MIG)			✓	✓	
vMotion for Multi-Instance GPUs (MIG)			✓	✓	
DirectPath I/O support for up to 32 devices in Passthrough				✓	
Increase the number of vGPUs from 4 to 8 per VM				✓	
vSphere on DPUs (VMware vSphere® Distributed Services Engine™)				✓	
Support for NVIDIA NVSwitch and NVLink				~	
Heterogeneous vGPU profiles on the same GPU				✓	
Dual DPU support with DSE				✓	



KEY FEATURES/ CAPABILITIES	6.5	6.7	7	8		
ADMINISTRATION						
Enhanced Linked Mode	✓	✓	✓	✓		
vCenter Server Hybrid Linked Mode⁵	✓	✓	✓	✓		
vCenter Server backup and restore ⁶	✓	✓	✓	✓		
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 ⁶		✓	✓	✓		
vSphere Lifecycle Manager™			✓	✓		
vCenter Server update planner			✓	✓		
vCenter Server profiles			✓	✓		
Desired image seeding			✓	✓		
ESXi suspend-to-memory			✓	✓		
vSphere Lifecycle Manager enhancements (pre-stage ESXi images)				✓		
ESXi Live Patching				✓		
Enhanced Image Customization				✓		
Green Metrics				✓		
Configuration Profiles™				✓		

- 1. Compatible with vSphere 6.0, U1, U2 and U3 for vMotion between same versions. Backwards compatible with vSphere 6.0 U3+ and vSphere 6.5 U1+.
- 2. vSphere Bitfusion is available through a new add-on for all Enterprise plus customers. Visit the vSphere pricing and packaging whitepaper for more details about the add-on for vSphere Bitfusion.
- 3. Requires NSX-T version 3.2 or later
- 4. For more information about the use of TLS 1.3 with FIPS 140-3 requirements consult the product documentation.
- 5. Backwards compatible with vSphere 6.0 U3+ on-premises and with vSphere 6.5 on premises. Compatible with vSphere 6.5 U2+ on-premises.
- 6. For vCenter Server Appliance only.

