VMmark® 4.0.2 Disclosure

Server Vendor & Model: Lenovo ThinkSystem SR650 V4 **Storage Vendor & Model: 4 x Lenovo ThinkSystem SR665** **1 x Lenovo ThinkSystem SR655** **Hypervisor: VMware ESXi 8.0 Update 3e, Build 24560471** **Server Management Software: VMware vCenter Server 8.0 Update 3d, Build 24322831**	**VMmark 4.0.2 Score =** **3.39 @ 3.8 Tiles**

Number of Hosts: 2	**Uniform Hosts [yes/no]: yes**	**Total sockets/cores/threads in test: 4/344/688**
Tested By: Lenovo	**Test Date: 03-25-2025**	**SUT Availability Date: 05-09-2025**

Performance Section	Configuration Section	Notes Section	Virtual Machines Section
Performance	Configuration	Notes for Workload	Virtual Machines

Performance

TILE_0_Scores	WVAuctionVM	WVAuctionK8S	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC	SocialNetwork	Standby	
p0	14138.14	9254.38	2831.25	2038.05	1529.62	59846.17	59846.67	59845.72	71.97	1.00	
p1	14129.42	9257.75	2799.50	2015.72	1432.00	57590.11	57590.35	57590.27	71.93	1.00	
p2	14168.39	9252.52	2793.22	2001.10	1502.65	55513.42	55513.62	55513.20	71.91	1.00	
TILE_0_Ratios	**WVAuctionVM**	**WVAuctionK8S**	**DVDStoreA**	**DVDStoreB**	**DVDStoreC**	**NoSQLBenchA**	**NoSQLBenchB**	**NoSQLBenchC**	**SocialNetwork**	**Standby**	**Geo.Mean**
p0	1.01	1.01	0.98	0.95	1.00	1.06	1.06	1.06	1.00	1.00	1.01
p1	1.01	1.01	0.97	0.94	0.94	1.02	1.02	1.02	1.00	1.00	0.99
p2	1.01	1.01	0.96	0.93	0.98	0.98	0.98	0.98	1.00	1.00	0.98
TILE_0_QoS	**WVAuctionVM%**	**WVAuctionK8S%**	**DVDStoreA**	**DVDStoreB**	**DVDStoreC**	**NoSQLBenchA**	**NoSQLBenchB**	**NoSQLBenchC**			
p0	0.23 | 0.00	0.77 | 0.01	473.22	543.90	584.07	0.60	0.60	0.60			
p1	0.25 | 0.00	0.80 | 0.01	496.20	567.59	620.80	0.65	0.65	0.65			
p2	0.27 | 0.00	0.85 | 0.01	503.87	583.66	623.26	0.66	0.67	0.66			
TILE_1_Scores	**WVAuctionVM**	**WVAuctionK8S**	**DVDStoreA**	**DVDStoreB**	**DVDStoreC**	**NoSQLBenchA**	**NoSQLBenchB**	**NoSQLBenchC**	**SocialNetwork**	**Standby**	
p0	14161.87	9301.25	2818.85	2074.32	1527.05	63869.50	63928.27	63872.39	72.05	1.00	
p1	14128.25	9264.65	2787.22	2055.32	1438.12	61776.49	61775.41	61775.69	71.99	1.00	
p2	14127.74	9253.05	2784.28	2024.33	1474.35	60029.11	60029.37	60029.28	71.97	1.00	
TILE_1_Ratios	**WVAuctionVM**	**WVAuctionK8S**	**DVDStoreA**	**DVDStoreB**	**DVDStoreC**	**NoSQLBenchA**	**NoSQLBenchB**	**NoSQLBenchC**	**SocialNetwork**	**Standby**	**Geo.Mean**
p0	1.01	1.01	0.97	0.96	1.00	1.13	1.13	1.13	1.00	1.00	1.04
p1	1.01	1.01	0.96	0.96	0.94	1.09	1.09	1.09	1.00	1.00	1.02
p2	1.01	1.01	0.96	0.94	0.96	1.06	1.06	1.06	1.00	1.00	1.01
TILE_1_QoS	**WVAuctionVM%**	**WVAuctionK8S%**	**DVDStoreA**	**DVDStoreB**	**DVDStoreC**	**NoSQLBenchA**	**NoSQLBenchB**	**NoSQLBenchC**			
p0	0.24 | 0.00	0.80 | 0.02	483.70	520.76	585.67	0.55	0.55	0.55			
p1	0.26 | 0.00	0.83 | 0.01	507.55	535.31	619.27	0.59	0.59	0.59			

p2	0.29 | 0.00	0.90 | 0.02	511.42	562.84	649.36	0.60	0.60	0.60			
TILE_2_Scores	**WVAuctionVM**	**WVAuctionK8S**	**DVDStoreA**	**DVDStoreB**	**DVDStoreC**	**NoSQLBenchA**	**NoSQLBenchB**	**NoSQLBenchC**	**SocialNetwork**	**Standby**	
p0	14147.05	9258.72	2977.40	2163.82	1646.97	60642.39	59110.57	59156.49	72.00	1.00	
p1	14138.72	9258.92	2953.03	2157.70	1568.72	57476.67	56597.60	56597.60	71.94	1.00	
p2	14147.04	9277.98	2963.03	2152.65	1630.95	55244.75	54800.39	54800.41	71.95	1.00	
TILE_2_Ratios	**WVAuctionVM**	**WVAuctionK8S**	**DVDStoreA**	**DVDStoreB**	**DVDStoreC**	**NoSQLBenchA**	**NoSQLBenchB**	**NoSQLBenchC**	**SocialNetwork**	**Standby**	**Geo.Mean**
p0	1.01	1.01	1.03	1.01	1.08	1.07	1.05	1.05	1.00	1.00	1.03
p1	1.01	1.01	1.02	1.00	1.03	1.02	1.00	1.00	1.00	1.00	1.01
p2	1.01	1.01	1.02	1.00	1.07	0.98	0.97	0.97	1.00	1.00	1.00
TILE_2_QoS	**WVAuctionVM%**	**WVAuctionK8S%**	**DVDStoreA**	**DVDStoreB**	**DVDStoreC**	**NoSQLBenchA**	**NoSQLBenchB**	**NoSQLBenchC**			
p0	0.24 | 0.00	0.71 | 0.01	377.73	432.19	444.12	0.58	0.59	0.60			
p1	0.26 | 0.00	0.69 | 0.02	394.25	438.83	450.58	0.64	0.64	0.64			
p2	0.28 | 0.00	0.78 | 0.01	393.30	439.31	457.74	0.67	0.66	0.66			
TILE_3_Scores	**WVAuctionVM**	**WVAuctionK8S**	**DVDStoreA**	**DVDStoreB**	**DVDStoreC**	**NoSQLBenchA**	**NoSQLBenchB**	**NoSQLBenchC**	**SocialNetwork**	**Standby**	
p0	N/A	9237.88	2789.38	2039.85	1532.03	72635.93	72635.82	72636.13	72.03	N/A	
p1	N/A	9248.78	2763.00	2025.35	1443.90	67815.24	67815.09	67815.35	72.00	N/A	
p2	N/A	9237.48	2744.10	2000.28	1424.40	65144.24	65144.15	65144.27	72.00	N/A	
TILE_3_Ratios	**WVAuctionVM**	**WVAuctionK8S**	**DVDStoreA**	**DVDStoreB**	**DVDStoreC**	**NoSQLBenchA**	**NoSQLBenchB**	**NoSQLBenchC**	**SocialNetwork**	**Standby**	**Geo.Mean**
p0	N/A	1.00	0.96	0.95	1.00	1.29	1.29	1.29	1.00	N/A	0.97
p1	N/A	1.01	0.95	0.94	0.94	1.20	1.20	1.20	1.00	N/A	0.93
p2	N/A	1.00	0.95	0.93	0.93	1.15	1.15	1.15	1.00	N/A	0.92
TILE_3_QoS	**WVAuctionVM%**	**WVAuctionK8S%**	**DVDStoreA**	**DVDStoreB**	**DVDStoreC**	**NoSQLBenchA**	**NoSQLBenchB**	**NoSQLBenchC**			
p0	N/A	0.50 | 0.00	501.71	547.28	582.61	0.52	0.51	0.51			
p1	N/A	0.50 | 0.00	520.86	559.49	612.71	0.56	0.56	0.56			
p2	N/A	0.57 | 0.00	533.52	581.11	632.13	0.56	0.56	0.56			
p0_score:	4.05										
p1_score:	3.95										
p2_score:	3.91										

Infrastructure_Operations_Scores:	**vMotion**	**SVMotion**	**XVMotion**	**Deploy**
Completed_Ops_PerHour	29.00	15.00	16.00	18.00
Avg_Seconds_To_Complete	1.02	15.13	13.72	158.25
Failures	0.00	0.00	0.00	0.00
Ratio	0.98	1.15	1.23	1.24
Number_Of_Threads	1	1	1	1

Summary	Run_Is_Compliant	Median_Phase(p1)
Unreviewed_VMmark4_Applications_Score	3.95	
Unreviewed_VMmark4_Infrastructure_Score	1.15	

Unreviewed_VMmark4_Score	3.39 @ 3.8 Tiles

Configuration

Virtualization Software	
Hypervisor Vendor, Product, Version, and Build / Availability Date (MM-DD-YYYY)	VMware ESXi 8.0 Update 3e, Build 24560471 / 04-10-2025
Server Management Software Vendor, Product, Version, and Build / Availability Date (MM-DD-YYYY)	VMware vCenter Server 8.0 Update 3d, Build 24322831 / 10-21-2024
Supplemental Software	None
Servers	
Number of Servers in System Under Test (all subsequent fields in this section are per server)	2
Server Manufacturer and Model	Lenovo ThinkSystem SR650 V4
Processor Vendor and Model	Intel Xeon 6787P
Processor Speed (GHz) / Turbo Boost Speed (GHz)	2.0 GHz / 3.8 GHz
Total Sockets/Total Cores/Total Threads	2 Sockets / 172 Cores / 344 Threads
NUMA Nodes	4
BIOS Version	1.20
Memory Size (in GB, Number of DIMMs)	Physical Memory (BIOS): 1024GB Physical Memory (ESXi): 1024GB Number of DIMMs: 16
Memory Type and Speed	

Location	Size	Speed	Max Speed	Rank	Type	Detail
DIMM1	64 GB	8000 MT/s	8800 MT/s	2	DDR5	Synchronous, Registered
DIMM3	64 GB	8000 MT/s	8800 MT/s	2	DDR5	Synchronous, Registered
DIMM5	64 GB	8000 MT/s	8800 MT/s	2	DDR5	Synchronous, Registered
DIMM7	64 GB	8000 MT/s	8800 MT/s	2	DDR5	Synchronous, Registered
DIMM10	64 GB	8000 MT/s	8800 MT/s	2	DDR5	Synchronous, Registered
DIMM12	64 GB	8000 MT/s	8800 MT/s	2	DDR5	Synchronous, Registered
DIMM14	64 GB	8000 MT/s	8800 MT/s	2	DDR5	Synchronous, Registered
DIMM16	64 GB	8000 MT/s	8800 MT/s	2	DDR5	Synchronous, Registered

DIMM17	64 GB	8000 MT/s	8800 MT/s	2	DDR5	Synchronous, Registered
DIMM19	64 GB	8000 MT/s	8800 MT/s	2	DDR5	Synchronous, Registered
DIMM21	64 GB	8000 MT/s	8800 MT/s	2	DDR5	Synchronous, Registered
DIMM23	64 GB	8000 MT/s	8800 MT/s	2	DDR5	Synchronous, Registered
DIMM26	64 GB	8000 MT/s	8800 MT/s	2	DDR5	Synchronous, Registered
DIMM28	64 GB	8000 MT/s	8800 MT/s	2	DDR5	Synchronous, Registered
DIMM30	64 GB	8000 MT/s	8800 MT/s	2	DDR5	Synchronous, Registered
DIMM32	64 GB	8000 MT/s	8800 MT/s	2	DDR5	Synchronous, Registered

Number of SAS Devices	0
SAS Device Vendors and Models	None
Number of Virtual Host Bus Adapters	4

Virtual Host Bus Adapter Vendors and Models

HBA	Model	Speed	Drive	Firmware
vmhba0	Emulex LPe38102 2-Port 64Gb Fibre Channel Adapter	32 Gbps	lpfc	14.4.393.53
vmhba1	Emulex LPe38102 2-Port 64Gb Fibre Channel Adapter	32 Gbps	lpfc	14.4.393.53
vmhba2	Emulex LPe38102 2-Port 64Gb Fibre Channel Adapter	32 Gbps	lpfc	14.4.393.53
vmhba3	Emulex LPe38102 2-Port 64Gb Fibre Channel Adapter	32 Gbps	lpfc	14.4.393.53

Power Supply Quantity, Name/Part Number, Wattage, Firmware, and Type (Voltage, AC/DC)	2 x AEI 2700W CFF v5 Power Supply PN: SP57B68021 FW: 4.23 Type: 230V, AC
Cooling Type (Air Cooling, Closed Loop Cooling, Direct Liquid Cooling, or Other)	Air Cooling
Other Hardware	Lenovo ThinkSystem DB620S 32Gb FC SAN Switch
Other Software	None
BIOS Availability Date (MM-DD-YYYY)	05-09-2025
Hardware Availability Date (MM-DD-YYYY)	05-09-2025
Software Availability Date (MM-DD-YYYY)	04-10-2025

Network

Number of Virtual Network Controllers	4

Virtual Network Controllers, Speeds, MTUs, Firmware, Drivers, Vendors and Models

Device	Speed	Duplex	MTU	Firmware	Driver	Description
vmnic0	100 Gbps	Full	9000	232.0.155.8 /pkg 232.1.132.8	bnxnet	Broadcom 57508 100GbE QSFP56 2-port OCP Ethernet Adapter
vmnic1	100 Gbps	Full	9000	232.0.155.8 /pkg 232.1.132.8	bnxnet	Broadcom 57508 100GbE QSFP56 2-port OCP Ethernet Adapter
vmnic2	100 Gbps	Full	9000	232.0.155.8 /pkg 232.1.132.8	bnxnet	Broadcom 57508 100GbE QSFP56 2-Port OCP Ethernet Adapter

vmnic3	100 Gbps	Full	9000	232.0.155.8 /pkg 232.1.132.8	bnxnet	Broadcom 57508 100GbE QSFP56 2-Port OCP Ethernet Adapter	

Number of Virtual Switches: 4

Virtual Switches, Ports, Port Groups, MTUs, Uplinks

Switch	Ports	Configured Ports	MTU	Uplinks
vSwitch0	9216	128	9000	vmnic0
vSwitch1	9216	128	9000	vmnic1
vSwitch2	9216	128	9000	vmnic2
vSwitch3	9216	128	9000	vmnic3

Switch	Port Group	VLAN ID	Upinks
vSwitch0	Management Network, VM Network, vMotion	0	vmnic0
vSwitch1	PortGrp1	0	vmnic1
vSwitch2	PortGrp2	0	vmnic2
vSwitch3	PortGrp3	0	vmnic3

VMkernel Network Adapters, Port Groups, MTU, TCP/IP Stacks, and Services

Device	Port Group	MTU	TCPU/IP Stack	Services
vmk0	Management Network	9000	Default	Management
vmk1	vMotion	9000	Default	vMotion

Physical Switch Vendors, Models and Speeds: Lenovo ThinkSystem NE10032 RackSwitch, 100Gb

Primary Storage

Storage Category: SCSI Target

Datastores

Datastores	Type	Size	Storage Device
Template	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
Deploy	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
SVmotion	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
XVmotion	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
SS_Tile0a	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
SS_Tile0b	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
SS_Tile0c	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
SS_Tile0d	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
SS_Tile1a	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
SS_Tile1b	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
SS_Tile1c	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
SS_Tile1d	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
SS_Tile2a	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
SS_Tile2b	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
SS_Tile2c	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk

SS_Tile2d	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
SS_Tile3a	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
SS_Tile3b	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
SS_Tile3c	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
SS_Tile3d	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk

Number of Storage Devices: 21

Storage Device Names, Sizes, Types, Vendors, Models, and Revisions

Storage Device	**Size**	**Type**	**Vendor**	**Model**	**Revision**	**Path Selection Policy**	**Path Selection Policy Config**	**# Working Paths**
Local NVMe Disk (Boot Device)	1.92 TB	Direct-Access	Micron	MTFDKCC1T9TGP2D1BK1DABYY	E3MQ001	FIXED	preferred=none	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	Template	4.0	VMW_PSP_MRU	Current Path=vmhba3:C0:T1:L1 (SUT1) Current Path=vmhba3:C0:T2:L1 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	XVmotion	4.0	VMW_PSP_MRU	Current Path=vmhba3:C0:T0:L1 (SUT1) Current Path=vmhba3:C0:T1:L1 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	Deploy	4.0	VMW_PSP_MRU	Current Path=vmhba3:C0:T0:L0 (SUT1) Current Path=vmhba3:C0:T2:L0 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SVmotion	4.0	VMW_PSP_MRU	Current Path=vmhba3:C0:T1:L0 (SUT1) Current Path=vmhba3:C0:T2:L0 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile0a	4.0	VMW_PSP_MRU	Current Path=vmhba0:C0:T2:L0 (SUT1) Current Path=vmhba0:C0:T4:L0 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile0b	4.0	VMW_PSP_MRU	Current Path=vmhba1:C0:T2:L0 (SUT1) Current Path=vmhba1:C0:T6:L0 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile0c	4.0	VMW_PSP_MRU	Current Path=vmhba2:C0:T0:L0 (SUT1) Current Path=vmhba2:C0:T3:L0 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile0d	4.0	VMW_PSP_MRU	Current Path=vmhba5:C0:T3:L0 (SUT1) Current Path=vmhba0:C0:T6:L0 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile1a	4.0	VMW_PSP_MRU	Current Path=vmhba1:C0:T0:L0 (SUT1) Current Path=vmhba1:C0:T8:L0 (SUT2)	1

	LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile1b	4.0	VMW_PSP_MRU	Current Path=vmhba2:C0:T1:L0 (SUT1) Current Path=vmhba2:C0:T0:L0 (SUT2)	1
	LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile1c	4.0	VMW_PSP_MRU	Current Path=vmhba5:C0:T0:L0 (SUT1) Current Path=vmhba0:C0:T0:L0 (SUT2)	1
	LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile1d	4.0	VMW_PSP_MRU	Current Path=vmhba6:C0:T3:L0 (SUT1) Current Path=vmhba1:C0:T7:L0 (SUT2)	1
	LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile2a	4.0	VMW_PSP_MRU	Current Path=vmhba2:C0:T3:L0 (SUT1) Current Path=vmhba2:C0:T2:L0 (SUT2)	1
	LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile2b	4.0	VMW_PSP_MRU	Current Path=vmhba5:C0:T4:L0 (SUT1) Current Path=vmhba6:C0:T2:L0 (SUT2)	1
	LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile2c	4.0	VMW_PSP_MRU	Current Path=vmhba6:C0:T0:L0 (SUT1) Current Path=vmhba6:C0:T3:L0 (SUT2)	1
	LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile2d	4.0	VMW_PSP_MRU	Current Path=vmhba0:C0:T4:L0 (SUT1) Current Path=vmhba0:C0:T4:L0 (SUT2)	1
	LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile3a	4.0	VMW_PSP_MRU	Current Path=vmhba5:C0:T2:L0 (SUT1) Current Path=vmhba5:C0:T5:L0 (SUT2)	1
	LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile3b	4.0	VMW_PSP_MRU	Current Path=vmhba6:C0:T2:L0 (SUT1) Current Path=vmhba6:C0:T2:L0 (SUT2)	1
	LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile3c	4.0	VMW_PSP_MRU	Current Path=vmhba0:C0:T1:L0 (SUT1) Current Path=vmhba0:C0:T3:L0 (SUT2)	1
	LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile3d	4.0	VMW_PSP_MRU	Current Path=vmhba1:C0:T1:L0 (SUT1) Current Path=vmhba1:C0:T3:L0 (SUT2)	1
How Datastores Map to Storage Devices	See Storage Notes Section								
VMware vSAN Configuration (if used)	None								

<table>
<tr><td>RAID Configuration (if used)</td><td>None</td></tr>
<tr><td colspan="2">Server Management</td></tr>
<tr><td>VMware vCenter Server Number of vCPUs</td><td>8</td></tr>
<tr><td>VMware vCenter Server Virtual Memory (in GB)</td><td>30</td></tr>
<tr><td colspan="2">Clients</td></tr>
<tr><td>Total Client VMs (including Prime Client)</td><td>5</td></tr>
<tr><td>Number of Client Hosts (all subsequent fields in this section per Client Host)</td><td>3</td></tr>
<tr><td>System Model(s)</td><td>Client Host 1: Lenovo ThinkSystem SR665 V3
Client Host 2: Lenovo ThinkSystem SR665 V3
Client Host 3: Lenovo ThinkSystem SR655</td></tr>
<tr><td>Processor Vendor(s) and Model(s)</td><td>Client Host 1: AMD EPYC 9654
Client Host 2: AMD EPYC 9654
Client Host 3: AMD EPYC 7713</td></tr>
<tr><td>Processor Speed(s) (GHz)</td><td>Client Host 1: 2.4 GHz
Client Host 2: 2.4 GHz
Client Host 3: 2.0 GHz</td></tr>
<tr><td>Total Sockets/Total Cores/Total Threads</td><td>
<table>
<tr><th>Client Host</th><th>Sockets</th><th>Cores</th><th>Threads</th></tr>
<tr><td>Client Host 1</td><td>2</td><td>192</td><td>384</td></tr>
<tr><td>Client Host 2</td><td>2</td><td>192</td><td>384</td></tr>
<tr><td>Client Host 3</td><td>1</td><td>64</td><td>128</td></tr>
<tr><td>Total</td><td>5</td><td>448</td><td>896</td></tr>
</table>
</td></tr>
<tr><td>NUMA Nodes</td><td>Client Host 1: 8
Client Host 2: 8
Client Host 3: 1</td></tr>
<tr><td>Memory Size (in GB) per Client Host</td><td>
<table>
<tr><th>Client Host</th><th>BIOS</th><th>ESXi</th></tr>
<tr><td>Client Host 1</td><td>1536 GB</td><td>1536 GB</td></tr>
<tr><td>Client Host 2</td><td>1536 GB</td><td>1536 GB</td></tr>
<tr><td>Client Host 3</td><td>256 GB</td><td>256 GB</td></tr>
</table>
</td></tr>
<tr><td>Virtual Network Controllers, Speeds, MTU, Firmware, Drivers, Vendors, and Models</td><td>
<table>
<tr><th>Client Host</th><th>Device</th><th>Speed</th><th>Duplex</th><th>MTU</th><th>Firmware</th><th>Driver</th><th>Description</th></tr>
<tr><td>Client Host 1</td><td>vmnic0</td><td>100 Gbps</td><td>Full</td><td>9000</td><td>232.0.155.8 /pkg 232.1.132.8</td><td>bnxnet</td><td>Broadcom 57508 100GbE QSFP56 2-port PCIe 4 Ethernet Adapter (1 port used)</td></tr>
</table>
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</table>

<table>
<tr><td></td><td>
<table>
<tr><td>Client Host 2</td><td>vmnic4</td><td>100 Gbps</td><td>Full</td><td>9000</td><td>232.0.155.8 /pkg 232.1.132.8</td><td>bnxnet</td><td>Broadcom 57508 100GbE QSFP56 2-Port OCP Ethernet Adapter (1 port used)</td></tr>
<tr><td>Client Host 3</td><td>vmnic0</td><td>25 Gbps</td><td>Full</td><td>9000</td><td>26.36.1010</td><td>nmlx5_core</td><td>Mellanox Technologies MT2894 Family [ConnectX-6 Lx]</td></tr>
</table>
</td></tr>
<tr><td>Virtual Switches, Ports, Port Groups, MTUs, and Uplinks</td><td>
<table>
<tr><th>Client Host</th><th>Switch</th><th>Ports</th><th>Configured Ports</th><th>MTU</th><th>Uplinks</th></tr>
<tr><td>Client Host 1</td><td>vSwitch0</td><td>9216</td><td>128</td><td>9000</td><td>vmnic0</td></tr>
<tr><td>Client Host 2</td><td>vSwitch0</td><td>9216</td><td>128</td><td>9000</td><td>vmnic4</td></tr>
<tr><td>Client Host 3</td><td>vSwitch0</td><td>9216</td><td>128</td><td>9000</td><td>vmnic0</td></tr>
</table>
<table>
<tr><th>Client Host</th><th>Switch</th><th>Port Group</th><th>VLAN ID</th><th>Uplinks</th></tr>
<tr><td rowspan="3">Client Host 1</td><td>vSwitch0</td><td>Management Network</td><td>0</td><td>vmnic0</td></tr>
<tr><td>vSwitch0</td><td>Primeclient</td><td>0</td><td>vmnic0</td></tr>
<tr><td>vSwitch0</td><td>VM Network</td><td>0</td><td>vmnic0</td></tr>
<tr><td rowspan="3">Client Host 2</td><td>vSwitch0</td><td>Management Network</td><td>0</td><td>vmnic4</td></tr>
<tr><td>vSwitch0</td><td>Primeclient</td><td>0</td><td>vmnic4</td></tr>
<tr><td>vSwitch0</td><td>VM Network</td><td>0</td><td>vmnic4</td></tr>
<tr><td rowspan="3">Client Host 3</td><td>vSwitch0</td><td>Management Network</td><td>0</td><td>vmnic0</td></tr>
<tr><td>vSwitch0</td><td>Primeclient</td><td>0</td><td>vmnic0</td></tr>
<tr><td>vSwitch0</td><td>VM Network</td><td>0</td><td>vmnic0</td></tr>
</table>
</td></tr>
<tr><td>VMkernel Network Adapters, Port Groups, MTUs, TCP/IP Stacks, and Services</td><td>
<table>
<tr><th>Client Host</th><th>Device</th><th>Port Group/DVPort</th><th>MTU</th><th>TCP/IP Stack</th><th>Services</th></tr>
<tr><td>Client Host 1</td><td>vmk0</td><td>Management Network</td><td>9000</td><td>Default</td><td>vMotion, Management</td></tr>
<tr><td>Client Host 2</td><td>vmk0</td><td>Management Network</td><td>9000</td><td>Default</td><td>vMotion, Management</td></tr>
<tr><td>Client Host 3</td><td>vmk0</td><td>Management Network</td><td>9000</td><td>Default</td><td>vMotion, Management</td></tr>
</table>
</td></tr>
<tr><td>Client Storage Notes</td><td>See Client Notes Section</td></tr>
<tr><td>Other Hardware</td><td>None</td></tr>
<tr><td>Other Software</td><td>Client Hosts 1, 2: VMware ESXi 8.0 Update 3e, Build 24560471
Client Host 3: VMware ESXi 8.0 Update 3b, Build 24280767</td></tr>
</table>

Notes for Workload

Template deployed with disk type: Thick Provision Lazy Zeroed

Virtualization Software Notes

- vSphere DRS Enabled
- vSphere DRS Automation Level set to Fully Automated
- vSphere DRS Migration Threshold Level set to 2
- Logging disabled for all VMs (default: Enabled)
- CD/DVD device was removed from all VMs (default: Present)
- VM scoreboard disabled for all VMs (default: Enabled)
- Primeclient's third virtual disk configured to be 750GB (default: no third virtual disk)
- Client VMs vCPU set to 96 (default: 64)

- Logical CPU configuration changed for all Client VMs to 48 cores per socket (default: 1)
- Logical CPU configuration changed for all multi-CPU VMs (except Client, Primeclient, Template, AuctionK VMs) to 1 socket with multiple cores (default: Single core per socket)
- All Standby VMs had CPU and Memory shares set to low (default: normal)
- All SocialNetwork VMs had CPU shares set to low (default: normal)
- All DS35DB, NoSQLBench VMs had CPU shares set to high (default: normal)
- All DS35DB VMs had Memory shares set to high (default: normal)
- All memory reserved for all DS35DB VMs (default: non-reserved)
- sched.mem.pin set to TRUE for all DS35DB VMs (default: FALSE)
- sched.mem.lpage.enable1GPage set to TRUE for all DS35DB VMs (default: FALSE)

SUT Host ESXi Advanced Settings:

Advanced Setting	**Host 1**	**Host 2**	**Default**
Cpu.CreditAgePeriod	1000	1000	3000
Cpu.HTWholeCoreThreshold	0	0	800
DataMover.HardwareAcceleratedInit	0	0	1
DataMover.HardwareAcceleratedMove	0	0	1
Disk.IdleCredit	64	64	32
Disk.ReqCallThreshold	1	1	8
Mem.CtlMaxPercent	0	0	65
Mem.ShareScanGHz	0	0	4
Numa.LTermFairnessInterval	0	0	5
Numa.LargeInterleave	0	0	1
Numa.LocalityWeightActionAffinity	0	0	130
Numa.MigThreshold	0	0	2
Numa.MonMigEnable	0	0	1
Numa.PageMigEnable	0	0	1
Numa.PreferHT	1	1	0
Numa.RebalancePeriod	60000	60000	2000
Numa.SwapLoadEnable	0	0	1
Numa.SwapLocalityEnable	0	0	1
Power.CpuPolicy	High Performance	High Performance	Balanced
UserVars.HostClientCEIPOptIn	2	2	0
UserVars.HostClientSessionTimeout	0	0	900
UserVars.SuppressShellWarning	1	1	0
VMkernel.Boot.hyperthreadingMitigation	True	True	False

SUT Host ESXi Modules Options:

Module	**Host 1**	**Host 2**	**Default**
tcpip4	ipv6=1	ipv6=1	ipv6=1

Server Notes

Server BIOS Settings

- Workload Profile set to Virtualization-Max Performance then Custom (default: General Computing-Max Performance)
- Latency Optimized Mode set to Enabled (default: Disabled)
- Sub-NUMA Clustering set to Enabled (default: Disabled)
- Fan speed set to Maximum (default: Normal)

Networking Notes

vSwitch Configuration

- All SUT and Client hosts are configured with Standard vSwitches
- The MTU of the all vSwitches, vmk0, vmk1 on all SUT and Client hosts was set to 9000 (default: 1500)

SUT Hosts:

- vSwitch0 configuration:
  - Uplink: vmnic0 (100Gbps)
  - Usage:
    - vmk0 for Management
    - vmk1 for vMotion
    - "VM Network" port group for all AuctionKA, Template

- vSwitch1 configuration:
  - Uplink: vmnic1 (100Gbps)
  - Usage: "PortGrp1" port group for all AuctionKB, AuctionWebDNosql, AuctionWebEDB, AuctionWebF

- vSwitch2 configuration:
  - Uplink: vmnic2 (100Gbps)
  - Usage: "PortGrp2" port group for all AuctionAppA, AuctionAppB, AuctionAppC, AuctionKC, AuctionWebA, DS35DB, DS35WebA, DS35WebB, DS35WebC, NoSQLBench, Standby

- vSwitch3 configuration:
  - Uplink: vmnic3 (100Gbps)
  - Usage: "PortGrp3" port group for all AuctionKD, AuctionWebB, AuctionWebC, SocialNetwork

Client Hosts:

- vSwitch0 configuration:
  - Uplink: vmnic0 (100Gbps) on Client Host 1
  - Uplink: vmnic4 (100Gbps) on Client Host 2
  - Uplink: vmnic0 (25Gbps) on Client Host 3
  - Usage:
    - vmk0 for Management and vMotion
    - "Primeclient" port group for Primeclient VM
    - "VM Network" port group for Client VMs

Storage Notes

- All SUT hosts OS installed on 1 x Lenovo ThinkSystem 2.5" U.3 7500 PRO 1.92TB Read Intensive NVMe PCIe 4.0 x4 HS SSD

Primary and Secondary Storage: Fibre Channel Target via SCSI Target Server (LIO)

- 4 x Lenovo ThinkSystem SR665, and 1 x Lenovo ThinkSystem SR655 configured as Fibre Channel Targets
- Hardware Details

Hardware	Processor	Memory	FC HBA	OS Storage System (not exported as FC Target LUN)	Workload Storage	Tile
Lenovo ThinkSystem SR665	2 x AMD EPYC 7773X 64-Core 2.2 GHz	2TB RAM (32 x 64GB DDR4-3200MHz RDIMM)	2 x Lenovo ThinkSystem QLogic QLE2772 2-port 32GB HBA used as FC target controllers	1 x Lenovo ThinkSystem 2.5" S4520 960GB Read Intensive SATA 6Gb HS SSD	4 x Lenovo ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD	0
Lenovo ThinkSystem SR665	2 x AMD EPYC 7552 48-Core 2.2 GHz	768GB RAM (12 x 64GB DDR4-3200MHz RDIMM)	2 x Lenovo ThinkSystem QLogic QLE2772 2-port 32GB HBA used as FC target controllers	1 x Lenovo ThinkSystem 2.5" S4520 960GB Read Intensive SATA 6Gb HS SSD	4 x Lenovo ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD	1
Lenovo ThinkSystem SR665	2 x AMD EPYC 7763 64-Core 2.45 GHHz	2TB RAM (32 x 64GB DDR4-3200MHz RDIMM)	2 x Lenovo ThinkSystem QLogic QLE2772 2-port 32GB HBA used as FC target controllers	1 x Lenovo ThinkSystem 2.5" S4520 960GB Read Intensive SATA 6Gb HS SSD	4 x Lenovo ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD	2
Lenovo ThinkSystem SR665	2 x AMD EPYC 7763 64-Core 2.45 GHz	512GB RAM (16 x 32GB DDR4-3200MHz RDIMM)	2 x Lenovo ThinkSystem QLogic QLE2772 2-port 32GB HBA used as FC target controllers	1 x Lenovo ThinkSystem 2.5" S4520 960GB Read Intensive SATA 6Gb HS SSD	4 x Lenovo ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD	3
Lenovo ThinkSystem SR655	1 x AMD EPYC 7502 32-Core 2.5 GHz	1TB RAM (16 x 64GB DDR4-3200MHz RDIMM)	1 x Lenovo ThinkSystem QLogic QLE2772 2-port 32GB HBA used as FC target controller	1 x Lenovo ThinkSystem 2.5" S4520 960GB Read Intensive SATA 6Gb HS SSD	4 x Lenovo ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD	Infrastructure Operations

- Software Details
  - Operating System: SUSE Linux Enterprise Server 15 SP5 - 5.14.21-150500.53-default
  - Fibre Channel Target SW: LIO (part of SUSE Linux Enterprise Server 15 SP5)
- LUN Details for Lenovo ThinkSystem SR665 FC Target for Tiles
  - Unless otherwise specified, an entire disk device was configured as a single LUN
  - Unless otherwise specified, all storage target servers for tiles are configured identically

LUN ID	LUN Size	Storage Drive	Workload
a	3.49TB	1 x Lenovo ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD	AuctionKA, AuctionKB, AuctionKC, AuctionKD, SocialNetwork
b	3.49TB	1 x Lenovo ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD	AuctionAppA, AuctionAppB, AuctionAppC, AuctionWebEDB, AuctionWebF, DS35WebB, NoSQLBenchC
c	3.49TB	1 x Lenovo ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD	AuctionWebA, AuctionWebC, AuctionWebDNosql, NoSQLBenchB, Standby
d	3.49TB	1 x Lenovo ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD	AuctionWebB, DS35DB, DS35WebA, DS35WebC, NoSQLBenchA

- LUN Details for Lenovo ThinkSystem SR655 FC Target for Infrastructure Operations

LUN ID	LUN Size	Storage Drive	Workload
a	3.49TB	1 x Lenovo ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD	XVMotion Target
b	3.49TB	1 x Lenovo ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD	Deploy Target
c	3.49TB	1 x Lenovo ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD	SVMotion Target
d	3.49TB	1 x Lenovo ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD	Template

Server Management Notes

VMware vCenter Server 8.0 Update 3d, Build 24322831 (standard) was hosted on Client Host 3, which is part of the client cluster

Operating System Notes

SUT Host ESXi Image Profile: ESXi-8.0U3e-24560471-standard

Software Notes

None

Client Notes

- vSphere DRS Disabled

Client Hosts 1, 2 BIOS Settings:

- Operating Mode set to Maximum Performance, then Custom Mode (default: Maximum Efficiency)
- Fan speed set to maximum (default: normal)

Client Host 3 BIOS Settings:

- Default Settings

Client Host ESXi Advanced Settings:

Advanced Setting	Host 1	Host 2	Host 3	Default
Cpu.CreditAgePeriod	1000	1000	3000	3000
Cpu.HTWholeCoreThreshold	0	0	800	800
DataMover.HardwareAcceleratedInit	0	0	1	1
DataMover.HardwareAcceleratedMove	0	0	1	1
Disk.IdleCredit	64	64	32	32
Disk.ReqCallThreshold	1	1	8	8
Mem.CtlMaxPercent	0	0	65	65
Mem.ShareScanGHz	0	0	4	4
Numa.LTermFairnessInterval	0	0	5	5
Numa.LargeInterleave	0	0	1	1
Numa.LocalityWeightActionAffinity	0	0	130	130
Numa.MigThreshold	0	0	2	2
Numa.MonMigEnable	0	0	1	1
Numa.PageMigEnable	0	0	1	1
Numa.PreferHT	1	1	0	0
Numa.RebalancePeriod	60000	60000	2000	2000
Numa.SwapLoadEnable	0	0	1	1
Numa.SwapLocalityEnable	0	0	1	1
Power.CpuPolicy	High Performance	High Performance	Balanced	Balanced
UserVars.HostClientCEIPOptIn	2	2	2	0

UserVars.HostClientSessionTimeout	0	0	0	900
UserVars.SuppressShellWarning	1	1	1	0
VMkernel.Boot.hyperthreadingMitigation	True	True	False	False

Client Host ESXi Modules Options:

Module	Host 1	Host 2	Host 3	Default
tcpip4	ipv6=1	ipv6=1	ipv6=1	ipv6=1

Client Hosts 1, 2 ESXi Image Profile: ESXi-8.0U3e-24560471-standard

Client Host 3 ESXi Image Profile: LVO_8.0.3-LVO.803.12.2, available at https://vmware.lenovo.com/content/2024_12/Lenovo_Custom_ISO/8.0u3/s/VMware-ESXi-8.0.3b-24280767-LNV-S03-20240919.iso

Client Storage:

- Client Hosts 1, 2: OS installed on 1 x Lenovo ThinkSystem 2.5" S4520 960GB Read Intensive SATA 6Gb HS SSD
- Client Host 3: OS installed on 1 x Lenovo ThinkSystem RAID 940-16i 8GB PCIe Gen4 12Gb Adapter; 1 x Lenovo ThinkSystem 2.5" 480GB Read Intensive SATA

Client Host VMs:

- Client Host 1: Client0, Client1
- Client Host 2: Client2, Client3
- Client Host 3: Primeclient, VCSAnew

Other Notes

None

VMmark4.properties Settings

- TileDelay = 2 (default: 60)
- ReporterSkipNonCompliant = 1 (default: 0)

Virtual Machines

SUT Host Virtual Machines

VM	vCPUs	Cores Per Socket	Memory (MB)	Sync Time	Logging	CD/DVD	CPU Res	CPU Limit	CPU Shares	Mem Res	Mem Limit	Mem Shares	Mem Pin	Mem 1G Page	Disk Shares	Datastore	Port Group	vHW Version	Tools Version
AuctionAppA0	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile0b	PortGrp2	17	12325
AuctionAppA1	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile1b	PortGrp2	17	12325
AuctionAppA2	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile2b	PortGrp2	17	12325
AuctionAppA3	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile3b	PortGrp2	17	12325
VM	**vCPUs**	**Cores Per Socket**	**Memory (MB)**	**Sync Time**	**Logging**	**CD/DVD**	**CPU Res**	**CPU Limit**	**CPU Shares**	**Mem Res**	**Mem Limit**	**Mem Shares**	**Mem Pin**	**Mem 1G Page**	**Disk Shares**	**Datastore**	**Port Group**	**vHW Version**	**Tools Version**
AuctionAppB0	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile0b	PortGrp2	17	12325
AuctionAppB1	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile1b	PortGrp2	17	12325
AuctionAppB2	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile2b	PortGrp2	17	12325
AuctionAppB3	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile3b	PortGrp2	17	12325

VM	vCPUs	Cores Per Socket	Memory (MB)	Sync Time	Logging	CD/DVD	CPU Res	CPU Limit	CPU Shares	Mem Res	Mem Limit	Mem Shares	Mem Pin	Mem 1G Page	Disk Shares	Datastore	Port Group	vHW Version	Tools Version
AuctionAppC0	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile0b	PortGrp2	17	12325
AuctionAppC1	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile1b	PortGrp2	17	12325
AuctionAppC2	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile2b	PortGrp2	17	12325
AuctionAppC3	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile3b	PortGrp2	17	12325
VM	**vCPUs**	**Cores Per Socket**	**Memory (MB)**	**Sync Time**	**Logging**	**CD/DVD**	**CPU Res**	**CPU Limit**	**CPU Shares**	**Mem Res**	**Mem Limit**	**Mem Shares**	**Mem Pin**	**Mem 1G Page**	**Disk Shares**	**Datastore**	**Port Group**	**vHW Version**	**Tools Version**
AuctionKA0	8	1	32768	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile0a	VM Network	17	12325
AuctionKA1	8	1	32768	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile1a	VM Network	17	12325
AuctionKA2	8	1	32768	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile2a	VM Network	17	12325
AuctionKA3	8	1	32768	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile3a	VM Network	17	12325
VM	**vCPUs**	**Cores Per Socket**	**Memory (MB)**	**Sync Time**	**Logging**	**CD/DVD**	**CPU Res**	**CPU Limit**	**CPU Shares**	**Mem Res**	**Mem Limit**	**Mem Shares**	**Mem Pin**	**Mem 1G Page**	**Disk Shares**	**Datastore**	**Port Group**	**vHW Version**	**Tools Version**
AuctionKB0	8	1	32768	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile0a	PortGrp1	17	12325
AuctionKB1	8	1	32768	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile1a	PortGrp1	17	12325
AuctionKB2	8	1	32768	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile2a	PortGrp1	17	12325
AuctionKB3	8	1	32768	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile3a	PortGrp1	17	12325
VM	**vCPUs**	**Cores Per Socket**	**Memory (MB)**	**Sync Time**	**Logging**	**CD/DVD**	**CPU Res**	**CPU Limit**	**CPU Shares**	**Mem Res**	**Mem Limit**	**Mem Shares**	**Mem Pin**	**Mem 1G Page**	**Disk Shares**	**Datastore**	**Port Group**	**vHW Version**	**Tools Version**
AuctionKC0	8	1	32768	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile0a	PortGrp2	17	12325
AuctionKC1	8	1	32768	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile1a	PortGrp2	17	12325
AuctionKC2	8	1	32768	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile2a	PortGrp2	17	12325
AuctionKC3	8	1	32768	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile3a	PortGrp2	17	12325
VM	**vCPUs**	**Cores Per Socket**	**Memory (MB)**	**Sync Time**	**Logging**	**CD/DVD**	**CPU Res**	**CPU Limit**	**CPU Shares**	**Mem Res**	**Mem Limit**	**Mem Shares**	**Mem Pin**	**Mem 1G Page**	**Disk Shares**	**Datastore**	**Port Group**	**vHW Version**	**Tools Version**
AuctionKD0	8	1	32768	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile0a	PortGrp3	17	12325
AuctionKD1	8	1	32768	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile1a	PortGrp3	17	12325
AuctionKD2	8	1	32768	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile2a	PortGrp3	17	12325
AuctionKD3	8	1	32768	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile3a	PortGrp3	17	12325
VM	**vCPUs**	**Cores Per Socket**	**Memory (MB)**	**Sync Time**	**Logging**	**CD/DVD**	**CPU Res**	**CPU Limit**	**CPU Shares**	**Mem Res**	**Mem Limit**	**Mem Shares**	**Mem Pin**	**Mem 1G Page**	**Disk Shares**	**Datastore**	**Port Group**	**vHW Version**	**Tools Version**
AuctionWebA0	4	4	12288	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile0c	PortGrp2	17	12325
AuctionWebA1	4	4	12288	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile1c	PortGrp2	17	12325
AuctionWebA2	4	4	12288	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile2c	PortGrp2	17	12325
AuctionWebA3	4	4	12288	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile3c	PortGrp2	17	12325
VM	**vCPUs**	**Cores Per Socket**	**Memory (MB)**	**Sync Time**	**Logging**	**CD/DVD**	**CPU Res**	**CPU Limit**	**CPU Shares**	**Mem Res**	**Mem Limit**	**Mem Shares**	**Mem Pin**	**Mem 1G Page**	**Disk Shares**	**Datastore**	**Port Group**	**vHW Version**	**Tools Version**
AuctionWebB0	4	4	12288	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile0d	PortGrp3	17	12325
AuctionWebB1	4	4	12288	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile1d	PortGrp3	17	12325
AuctionWebB2	4	4	12288	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile2d	PortGrp3	17	12325
AuctionWebB3	4	4	12288	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile3d	PortGrp3	17	12325
VM	**vCPUs**	**Cores Per Socket**	**Memory (MB)**	**Sync Time**	**Logging**	**CD/DVD**	**CPU Res**	**CPU Limit**	**CPU Shares**	**Mem Res**	**Mem Limit**	**Mem Shares**	**Mem Pin**	**Mem 1G Page**	**Disk Shares**	**Datastore**	**Port Group**	**vHW Version**	**Tools Version**
AuctionWebC0	4	4	12288	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile0c	PortGrp3	17	12325
AuctionWebC1	4	4	12288	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile1c	PortGrp3	17	12325
AuctionWebC2	4	4	12288	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile2c	PortGrp3	17	12325
AuctionWebC3	4	4	12288	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile3c	PortGrp3	17	12325
VM	**vCPUs**	**Cores Per Socket**	**Memory (MB)**	**Sync Time**	**Logging**	**CD/DVD**	**CPU Res**	**CPU Limit**	**CPU Shares**	**Mem Res**	**Mem Limit**	**Mem Shares**	**Mem Pin**	**Mem 1G Page**	**Disk Shares**	**Datastore**	**Port Group**	**vHW Version**	**Tools Version**
AuctionWebDNosql0	4	4	20480	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile0c	PortGrp1	17	12325

AuctionWebDNosql1	4	4	20480	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile1c	PortGrp1	17	12325
AuctionWebDNosql2	4	4	20480	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile2c	PortGrp1	17	12325
AuctionWebDNosql3	4	4	20480	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile3c	PortGrp1	17	12325
VM	**vCPUs**	**Cores Per Socket**	**Memory (MB)**	**Sync Time**	**Logging**	**CD/DVD**	**CPU Res**	**CPU Limit**	**CPU Shares**	**Mem Res**	**Mem Limit**	**Mem Shares**	**Mem Pin**	**Mem 1G Page**	**Disk Shares**	**Datastore**	**Port Group**	**vHW Version**	**Tools Version**
AuctionWebEDB0	4	4	16384	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile0b	PortGrp1	17	12325
AuctionWebEDB1	4	4	16384	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile1b	PortGrp1	17	12325
AuctionWebEDB2	4	4	16384	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile2b	PortGrp1	17	12325
AuctionWebEDB3	4	4	16384	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile3b	PortGrp1	17	12325
VM	**vCPUs**	**Cores Per Socket**	**Memory (MB)**	**Sync Time**	**Logging**	**CD/DVD**	**CPU Res**	**CPU Limit**	**CPU Shares**	**Mem Res**	**Mem Limit**	**Mem Shares**	**Mem Pin**	**Mem 1G Page**	**Disk Shares**	**Datastore**	**Port Group**	**vHW Version**	**Tools Version**
AuctionWebF0	2	2	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile0b	PortGrp1	17	12325
AuctionWebF1	2	2	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile1b	PortGrp1	17	12325
AuctionWebF2	2	2	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile2b	PortGrp1	17	12325
AuctionWebF3	2	2	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile3b	PortGrp1	17	12325
VM	**vCPUs**	**Cores Per Socket**	**Memory (MB)**	**Sync Time**	**Logging**	**CD/DVD**	**CPU Res**	**CPU Limit**	**CPU Shares**	**Mem Res**	**Mem Limit**	**Mem Shares**	**Mem Pin**	**Mem 1G Page**	**Disk Shares**	**Datastore**	**Port Group**	**vHW Version**	**Tools Version**
DS35DB0	24	24	49152	TRUE	FALSE	Removed	0	Unlimited	high	49152	Unlimited	high	TRUE	TRUE	normal	SS_Tile0d	PortGrp2	17	12325
DS35DB1	24	24	49152	TRUE	FALSE	Removed	0	Unlimited	high	49152	Unlimited	high	TRUE	TRUE	normal	SS_Tile1d	PortGrp2	17	12325
DS35DB2	24	24	49152	TRUE	FALSE	Removed	0	Unlimited	high	49152	Unlimited	high	TRUE	TRUE	normal	SS_Tile2d	PortGrp2	17	12325
DS35DB3	24	24	49152	TRUE	FALSE	Removed	0	Unlimited	high	49152	Unlimited	high	TRUE	TRUE	normal	SS_Tile3d	PortGrp2	17	12325
VM	**vCPUs**	**Cores Per Socket**	**Memory (MB)**	**Sync Time**	**Logging**	**CD/DVD**	**CPU Res**	**CPU Limit**	**CPU Shares**	**Mem Res**	**Mem Limit**	**Mem Shares**	**Mem Pin**	**Mem 1G Page**	**Disk Shares**	**Datastore**	**Port Group**	**vHW Version**	**Tools Version**
DS35WebA0	6	6	512	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile0d	PortGrp2	17	12325
DS35WebA1	6	6	512	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile1d	PortGrp2	17	12325
DS35WebA2	6	6	512	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile2d	PortGrp2	17	12325
DS35WebA3	6	6	512	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile3d	PortGrp2	17	12325
VM	**vCPUs**	**Cores Per Socket**	**Memory (MB)**	**Sync Time**	**Logging**	**CD/DVD**	**CPU Res**	**CPU Limit**	**CPU Shares**	**Mem Res**	**Mem Limit**	**Mem Shares**	**Mem Pin**	**Mem 1G Page**	**Disk Shares**	**Datastore**	**Port Group**	**vHW Version**	**Tools Version**
DS35WebB0	6	6	512	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile0b	PortGrp2	17	12325
DS35WebB1	6	6	512	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile1b	PortGrp2	17	12325
DS35WebB2	6	6	512	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile2b	PortGrp2	17	12325
DS35WebB3	6	6	512	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile3b	PortGrp2	17	12325
VM	**vCPUs**	**Cores Per Socket**	**Memory (MB)**	**Sync Time**	**Logging**	**CD/DVD**	**CPU Res**	**CPU Limit**	**CPU Shares**	**Mem Res**	**Mem Limit**	**Mem Shares**	**Mem Pin**	**Mem 1G Page**	**Disk Shares**	**Datastore**	**Port Group**	**vHW Version**	**Tools Version**
DS35WebC0	6	6	512	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile0d	PortGrp2	17	12325
DS35WebC1	6	6	512	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile1d	PortGrp2	17	12325
DS35WebC2	6	6	512	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile2d	PortGrp2	17	12325
DS35WebC3	6	6	512	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile3d	PortGrp2	17	12325
VM	**vCPUs**	**Cores Per Socket**	**Memory (MB)**	**Sync Time**	**Logging**	**CD/DVD**	**CPU Res**	**CPU Limit**	**CPU Shares**	**Mem Res**	**Mem Limit**	**Mem Shares**	**Mem Pin**	**Mem 1G Page**	**Disk Shares**	**Datastore**	**Port Group**	**vHW Version**	**Tools Version**
NoSQLBenchA0	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile0d	PortGrp2	17	12325
NoSQLBenchA1	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile1d	PortGrp2	17	12325
NoSQLBenchA2	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile2d	PortGrp2	17	12325
NoSQLBenchA3	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile3d	PortGrp2	17	12325
VM	**vCPUs**	**Cores Per Socket**	**Memory (MB)**	**Sync Time**	**Logging**	**CD/DVD**	**CPU Res**	**CPU Limit**	**CPU Shares**	**Mem Res**	**Mem Limit**	**Mem Shares**	**Mem Pin**	**Mem 1G Page**	**Disk Shares**	**Datastore**	**Port Group**	**vHW Version**	**Tools Version**
NoSQLBenchB0	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile0c	PortGrp2	17	12325
NoSQLBenchB1	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile1c	PortGrp2	17	12325
NoSQLBenchB2	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile2c	PortGrp2	17	12325

NoSQLBenchB3	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile3c	PortGrp2	17	12325
VM	**vCPUs**	**Cores Per Socket**	**Memory (MB)**	**Sync Time**	**Logging**	**CD/DVD**	**CPU Res**	**CPU Limit**	**CPU Shares**	**Mem Res**	**Mem Limit**	**Mem Shares**	**Mem Pin**	**Mem 1G Page**	**Disk Shares**	**Datastore**	**Port Group**	**vHW Version**	**Tools Version**
NoSQLBenchC0	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile0b	PortGrp2	17	12325
NoSQLBenchC1	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile1b	PortGrp2	17	12325
NoSQLBenchC2	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile2b	PortGrp2	17	12325
NoSQLBenchC3	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile3b	PortGrp2	17	12325
VM	**vCPUs**	**Cores Per Socket**	**Memory (MB)**	**Sync Time**	**Logging**	**CD/DVD**	**CPU Res**	**CPU Limit**	**CPU Shares**	**Mem Res**	**Mem Limit**	**Mem Shares**	**Mem Pin**	**Mem 1G Page**	**Disk Shares**	**Datastore**	**Port Group**	**vHW Version**	**Tools Version**
SocialNetwork0	36	36	16384	TRUE	FALSE	Removed	0	Unlimited	low	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile0a	PortGrp3	17	12325
SocialNetwork1	36	36	16384	TRUE	FALSE	Removed	0	Unlimited	low	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile1a	PortGrp3	17	12325
SocialNetwork2	36	36	16384	TRUE	FALSE	Removed	0	Unlimited	low	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile2a	PortGrp3	17	12325
SocialNetwork3	36	36	16384	TRUE	FALSE	Removed	0	Unlimited	low	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile3a	PortGrp3	17	12325
VM	**vCPUs**	**Cores Per Socket**	**Memory (MB)**	**Sync Time**	**Logging**	**CD/DVD**	**CPU Res**	**CPU Limit**	**CPU Shares**	**Mem Res**	**Mem Limit**	**Mem Shares**	**Mem Pin**	**Mem 1G Page**	**Disk Shares**	**Datastore**	**Port Group**	**vHW Version**	**Tools Version**
Standby0	1	1	2048	TRUE	FALSE	Removed	0	Unlimited	low	0	Unlimited	low	FALSE	FALSE	normal	SS_Tile0c	PortGrp2	17	12325
Standby1	1	1	2048	TRUE	FALSE	Removed	0	Unlimited	low	0	Unlimited	low	FALSE	FALSE	normal	SS_Tile1c	PortGrp2	17	12325
Standby2	1	1	2048	TRUE	FALSE	Removed	0	Unlimited	low	0	Unlimited	low	FALSE	FALSE	normal	SS_Tile2c	PortGrp2	17	12325
Standby3	1	1	2048	TRUE	FALSE	Removed	0	Unlimited	low	0	Unlimited	low	FALSE	FALSE	normal	SS_Tile3c	PortGrp2	17	12325
VM	**vCPUs**	**Cores Per Socket**	**Memory (MB)**	**Sync Time**	**Logging**	**CD/DVD**	**CPU Res**	**CPU Limit**	**CPU Shares**	**Mem Res**	**Mem Limit**	**Mem Shares**	**Mem Pin**	**Mem 1G Page**	**Disk Shares**	**Datastore**	**Port Group**	**vHW Version**	**Tools Version**
VMmark-4.0.2-209	4	1	32768	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Template	VM Network	17	12325

Client Host Virtual Machines

VM	vCPUs	Cores Per Socket	Memory (MB)	Sync Time	Logging	CD/DVD	CPU Res	CPU Limit	CPU Shares	Mem Res	Mem Limit	Mem Shares	Mem Pin	Mem 1G Page	Disk Shares	Datastore	Port Group	vHW Version	Tools Version
Client0	96	48	98304	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	VMmark3_Client_ds2_DE4000	VM Network	17	12325
Client1	96	48	98304	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	VMmark3_Client_ds1_DE4000	VM Network	17	12325
Client2	96	48	98304	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	VMmark3_Client_ds2_DE4000	VM Network	17	12325
Client3	96	48	98304	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	VMmark3_Client_ds1_DE4000	VM Network	17	12325
Primeclient	4	1	32768	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	PrimeclientDS	Primeclient, Primeclient	17	12325
VCSAnew	8	1	30720	FALSE	TRUE	Present	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	VCSAnew	VM Network	10	12389
