VMmark® 4.0.2 Disclosure

Server Vendor & Model: HPE ProLiant DL385 Gen11 **Storage Vendor & Model: iSCSI with 2 * HPE ProLiant DL385 Gen11** **Hypervisor: VMware ESXi 8.0 Update 3e, Build 24674464** **Server Management Software: VMware vCenter Server 8.0 Update 3, Build 24022515**	**VMmark 4.0.2 Score = 3.30 @ 3.6 Tiles**

Number of Hosts: 2	**Uniform Hosts: yes**	**Total sockets/cores/threads in test: 4/336/672**
Tested By: Hewlett Packard Enterprise	**Test Date: 05-13-2025**	**SUT Availability Date: 04-09-2025**

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	13917.22	9160.10	2925.40	2128.43	1591.10	56069.85	56070.00	56068.77	71.93	1.00	
p1	13926.74	9142.12	2894.72	2104.07	1498.22	54183.66	54183.48	54183.29	71.93	1.00	
p2	13936.45	9127.18	2892.57	2081.10	1557.53	52718.65	52718.66	52718.75	71.93	1.00	
TILE_0_Ratios	**WVAuctionVM**	**WVAuctionK8S**	**DVDStoreA**	**DVDStoreB**	**DVDStoreC**	**NoSQLBenchA**	**NoSQLBenchB**	**NoSQLBenchC**	**SocialNetwork**	**Standby**	**Geo.Mean**
p0	0.99	1.00	1.01	0.99	1.04	0.99	0.99	0.99	1.00	1.00	1.00
p1	0.99	0.99	1.00	0.98	0.98	0.96	0.96	0.96	1.00	1.00	0.98
p2	1.00	0.99	1.00	0.97	1.02	0.93	0.93	0.93	1.00	1.00	0.97
TILE_0_QoS	**WVAuctionVM%**	**WVAuctionK8S%**	**DVDStoreA**	**DVDStoreB**	**DVDStoreC**	**NoSQLBenchA**	**NoSQLBenchB**	**NoSQLBenchC**			
p0	0.57 | 0.03	0.42 | 0.00	409.95	464.49	506.22	0.61	0.62	0.61			
p1	0.58 | 0.05	0.41 | 0.00	426.30	483.77	532.40	0.65	0.65	0.65			
p2	0.64 | 0.06	0.41 | 0.00	429.46	506.19	542.62	0.66	0.66	0.66			
TILE_1_Scores	**WVAuctionVM**	**WVAuctionK8S**	**DVDStoreA**	**DVDStoreB**	**DVDStoreC**	**NoSQLBenchA**	**NoSQLBenchB**	**NoSQLBenchC**	**SocialNetwork**	**Standby**	
p0	13918.43	9218.28	2833.82	1938.72	1453.85	58631.48	58630.81	58631.71	71.94	1.00	
p1	13950.36	9243.38	2811.72	2037.22	1489.90	56757.77	56757.95	56757.51	71.83	1.00	
p2	13946.06	9236.61	2795.88	1889.25	1414.25	55405.86	55406.11	55406.09	71.63	1.00	
TILE_1_Ratios	**WVAuctionVM**	**WVAuctionK8S**	**DVDStoreA**	**DVDStoreB**	**DVDStoreC**	**NoSQLBenchA**	**NoSQLBenchB**	**NoSQLBenchC**	**SocialNetwork**	**Standby**	**Geo.Mean**
p0	0.99	1.00	0.98	0.90	0.95	1.04	1.04	1.04	1.00	1.00	0.99
p1	1.00	1.00	0.97	0.95	0.97	1.00	1.00	1.00	1.00	1.00	0.99
p2	1.00	1.00	0.96	0.88	0.92	0.98	0.98	0.98	0.99	1.00	0.97
TILE_1_QoS	**WVAuctionVM%**	**WVAuctionK8S%**	**DVDStoreA**	**DVDStoreB**	**DVDStoreC**	**NoSQLBenchA**	**NoSQLBenchB**	**NoSQLBenchC**			
p0	0.52 | 0.03	0.42 | 0.00	473.84	572.72	592.14	0.59	0.58	0.58			
p1	0.52 | 0.01	0.41 | 0.01	490.06	603.03	624.05	0.61	0.61	0.61			
p2	0.56 | 0.06	0.45 | 0.00	502.59	623.67	644.00	0.63	0.63	0.63			
TILE_2_Scores	**WVAuctionVM**	**WVAuctionK8S**	**DVDStoreA**	**DVDStoreB**	**DVDStoreC**	**NoSQLBenchA**	**NoSQLBenchB**	**NoSQLBenchC**	**SocialNetwork**	**Standby**	
p0	14104.08	9235.44	2915.70	2000.25	1482.53	56609.83	56615.00	56614.62	72.03	1.00	
p1	14122.74	9233.27	2895.45	2133.30	1520.20	54907.10	54907.46	54907.92	71.98	1.00	

p2	14089.98	9231.20	2874.03	1957.62	1457.25	53581.09	53581.48	53581.40	71.98	1.00	
TILE_2_Ratios	**WVAuctionVM**	**WVAuctionK8S**	**DVDStoreA**	**DVDStoreB**	**DVDStoreC**	**NoSQLBenchA**	**NoSQLBenchB**	**NoSQLBenchC**	**SocialNetwork**	**Standby**	**Geo.Mean**
p0	1.01	1.00	1.01	0.93	0.97	1.00	1.00	1.00	1.00	1.00	0.99
p1	1.01	1.00	1.00	0.99	0.99	0.97	0.97	0.97	1.00	1.00	0.99
p2	1.01	1.00	0.99	0.91	0.95	0.95	0.95	0.95	1.00	1.00	0.97
TILE_2_QoS	**WVAuctionVM%**	**WVAuctionK8S%**	**DVDStoreA**	**DVDStoreB**	**DVDStoreC**	**NoSQLBenchA**	**NoSQLBenchB**	**NoSQLBenchC**			
p0	0.56 | 0.04	0.43 | 0.00	419.47	511.80	554.57	0.60	0.60	0.60			
p1	0.60 | 0.03	0.47 | 0.01	428.44	516.40	585.09	0.63	0.63	0.63			
p2	0.60 | 0.05	0.45 | 0.00	439.38	553.92	589.40	0.65	0.65	0.65			
TILE_3_Scores	**WVAuctionVM**	**WVAuctionK8S**	**DVDStoreA**	**DVDStoreB**	**DVDStoreC**	**NoSQLBenchA**	**NoSQLBenchB**	**NoSQLBenchC**	**SocialNetwork**	**Standby**	
p0	N/A	N/A	2860.00	2057.07	1456.92	79798.24	79800.05	79798.76	72.00	N/A	
p1	N/A	N/A	2830.75	2178.43	1520.20	75767.58	75768.50	75767.52	71.98	N/A	
p2	N/A	N/A	2825.57	2017.17	1444.65	73112.97	73113.60	73112.93	71.97	N/A	
TILE_3_Ratios	**WVAuctionVM**	**WVAuctionK8S**	**DVDStoreA**	**DVDStoreB**	**DVDStoreC**	**NoSQLBenchA**	**NoSQLBenchB**	**NoSQLBenchC**	**SocialNetwork**	**Standby**	**Geo.Mean**
p0	N/A	N/A	0.99	0.96	0.95	1.41	1.41	1.41	1.00	N/A	0.89
p1	N/A	N/A	0.98	1.01	0.99	1.34	1.34	1.34	1.00	N/A	0.88
p2	N/A	N/A	0.97	0.94	0.94	1.29	1.29	1.29	1.00	N/A	0.85
TILE_3_QoS	**WVAuctionVM%**	**WVAuctionK8S%**	**DVDStoreA**	**DVDStoreB**	**DVDStoreC**	**NoSQLBenchA**	**NoSQLBenchB**	**NoSQLBenchC**			
p0	N/A	N/A	454.48	471.76	588.02	0.44	0.44	0.44			
p1	N/A	N/A	478.79	489.15	592.33	0.47	0.48	0.48			
p2	N/A	N/A	481.11	503.70	597.77	0.49	0.49	0.49			
p0_score:	3.87										
p1_score:	3.84										
p2_score:	3.76										

Infrastructure_Operations_Scores:	**vMotion**	**SVMotion**	**XVMotion**	**Deploy**
Completed_Ops_PerHour	29.50	16.00	16.00	17.00
Avg_Seconds_To_Complete	1.66	23.25	21.56	167.91
Failures	0.00	0.00	0.00	0.00
Ratio	1.00	1.23	1.23	1.17
Number_Of_Threads	1	1	1	1

Summary	Run_Is_Compliant	Median_Phase(p1)
Unreviewed_VMmark4_Applications_Score	3.84	
Unreviewed_VMmark4_Infrastructure_Score	1.15	
Unreviewed_VMmark4_Score	3.30 @ 3.6 Tiles	

Configuration

Virtualization Software	
Hypervisor Vendor, Product, Version, and Build /	VMware ESXi 8.0 Update 3e, Build 24674464 / 04-15-2025

Availability Date (MM-DD-YYYY)	
Server Management Software Vendor, Product, Version, and Build / Availability Date (MM-DD-YYYY)	VMware vCenter Server 8.0 Update 3, Build 24022515 / 06-25-2024
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	HPE ProLiant DL385 Gen11
Processor Vendor and Model	AMD EPYC 9634
Processor Speed (GHz) / Turbo Boost Speed (GHz)	2.25 GHz / 3.7 GHz
Total Sockets/Total Cores/Total Threads	2 Sockets / 168 Cores / 336 Threads
NUMA Nodes	2
BIOS Version	2.42
Memory Size (in GB, Number of DIMMs)	Physical Memory (BIOS): 1536 GB Physical Memory (ESXi): 1536 GB Number of DIMMs: 24

Memory Type and Speed

Location	Size	Speed	Max Speed	Rank	Type	Detail
PROC 1 DIMM 1	64 GB	4800 MT/s	4800 MT/s	2	DDR5	Synchronous, Registered
PROC 1 DIMM 2	64 GB	4800 MT/s	4800 MT/s	2	DDR5	Synchronous, Registered
PROC 1 DIMM 3	64 GB	4800 MT/s	4800 MT/s	2	DDR5	Synchronous, Registered
PROC 1 DIMM 4	64 GB	4800 MT/s	4800 MT/s	2	DDR5	Synchronous, Registered
PROC 1 DIMM 5	64 GB	4800 MT/s	4800 MT/s	2	DDR5	Synchronous, Registered
PROC 1 DIMM 6	64 GB	4800 MT/s	4800 MT/s	2	DDR5	Synchronous, Registered
PROC 1 DIMM 7	64 GB	4800 MT/s	4800 MT/s	2	DDR5	Synchronous, Registered
PROC 1 DIMM 8	64 GB	4800 MT/s	4800 MT/s	2	DDR5	Synchronous, Registered
PROC 1 DIMM 9	64 GB	4800 MT/s	4800 MT/s	2	DDR5	Synchronous, Registered
PROC 1 DIMM 10	64 GB	4800 MT/s	4800 MT/s	2	DDR5	Synchronous, Registered
PROC 1 DIMM 11	64 GB	4800 MT/s	4800 MT/s	2	DDR5	Synchronous, Registered
PROC 1 DIMM 12	64 GB	4800 MT/s	4800 MT/s	2	DDR5	Synchronous, Registered
PROC 2 DIMM 1	64 GB	4800 MT/s	4800 MT/s	2	DDR5	Synchronous, Registered
PROC 2 DIMM 2	64 GB	4800 MT/s	4800 MT/s	2	DDR5	Synchronous, Registered
PROC 2 DIMM 3	64 GB	4800 MT/s	4800 MT/s	2	DDR5	Synchronous, Registered
PROC 2 DIMM 4	64 GB	4800 MT/s	4800 MT/s	2	DDR5	Synchronous, Registered
PROC 2 DIMM 5	64 GB	4800 MT/s	4800 MT/s	2	DDR5	Synchronous, Registered
PROC 2 DIMM 6	64 GB	4800 MT/s	4800 MT/s	2	DDR5	Synchronous, Registered
PROC 2 DIMM 7	64 GB	4800 MT/s	4800 MT/s	2	DDR5	Synchronous, Registered

	<table><tr><td>PROC 2 DIMM 8</td><td>64 GB</td><td>4800 MT/s</td><td>4800 MT/s</td><td>2</td><td>DDR5</td><td>Synchronous, Registered</td></tr><tr><td>PROC 2 DIMM 9</td><td>64 GB</td><td>4800 MT/s</td><td>4800 MT/s</td><td>2</td><td>DDR5</td><td>Synchronous, Registered</td></tr><tr><td>PROC 2 DIMM 10</td><td>64 GB</td><td>4800 MT/s</td><td>4800 MT/s</td><td>2</td><td>DDR5</td><td>Synchronous, Registered</td></tr><tr><td>PROC 2 DIMM 11</td><td>64 GB</td><td>4800 MT/s</td><td>4800 MT/s</td><td>2</td><td>DDR5</td><td>Synchronous, Registered</td></tr><tr><td>PROC 2 DIMM 12</td><td>64 GB</td><td>4800 MT/s</td><td>4800 MT/s</td><td>2</td><td>DDR5</td><td>Synchronous, Registered</td></tr></table>
Number of SAS Devices	0
SAS Device Vendors and Models	None
Number of Virtual Host Bus Adapters	0
Virtual Host Bus Adapter Vendors and Models	None
Power Supply Quantity, Name/Part Number, Wattage, Firmware, and Type (Voltage, AC/DC)	• Power supply information: ◦ 2 * HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit per server (P38997-B21) ◦ Firmware: 2.0 ◦ Voltage Type: AC ◦ Input Voltage: High-line (HL): 200 - 240 VAC
Cooling Type (Air Cooling, Closed Loop Cooling, Direct Liquid Cooling, or Other)	Air Cooling
Other Hardware	None
Other Software	None
BIOS Availability Date (MM-DD-YYYY)	04-09-2025
Hardware Availability Date (MM-DD-YYYY)	12-02-2022
Software Availability Date (MM-DD-YYYY)	04-15-2025
Network	
Number of Virtual Network Controllers	4
Virtual Network Controllers, Speeds, MTUs, Firmware, Drivers, Vendors, and Models	<table><tr><th>Device</th><th>Speed</th><th>Duplex</th><th>MTU</th><th>Firmware</th><th>Driver</th><th>Description</th></tr><tr><td>vmnic0</td><td>25 Gbps</td><td>Full</td><td>9000</td><td>26.33.1048</td><td>nmlx5_core</td><td>Mellanox Technologies ConnectX-6 Lx EN NIC; 25GbE; dual-port SFP28; PCIe4.0 x8; (MCX631102AN-ADA)</td></tr><tr><td>vmnic1</td><td>25 Gbps</td><td>Full</td><td>9000</td><td>26.33.1048</td><td>nmlx5_core</td><td>Mellanox Technologies ConnectX-6 Lx EN NIC; 25GbE; dual-port SFP28; PCIe4.0 x8; (MCX631102AN-ADA)</td></tr><tr><td>vmnic2</td><td>100 Gbps</td><td>Full</td><td>9000</td><td>28.36.1700</td><td>nmlx5_core</td><td>Mellanox Technologies ConnectX-7 VPI NIC; NDR200/HDR IB /200GbE; dual-port QSFP; PCIe5.0 x16; (MCX755106AS-HEA)</td></tr><tr><td>vmnic3</td><td>100 Gbps</td><td>Full</td><td>9000</td><td>28.36.1700</td><td>nmlx5_core</td><td>Mellanox Technologies ConnectX-7 VPI NIC; NDR200/HDR IB /200GbE; dual-port QSFP; PCIe5.0 x16; (MCX755106AS-HEA)</td></tr></table>
Number of Virtual Switches	3
Virtual Switches, Ports, Port Groups, MTUs, and Uplinks	<table><tr><th>Switch</th><th>Ports</th><th>Configured Ports</th><th>MTU</th><th>Uplinks</th></tr><tr><td>vSwitch0</td><td>9216</td><td>128</td><td>9000</td><td>vmnic0</td></tr><tr><td>vSwitch1</td><td>9216</td><td>128</td><td>9000</td><td>vmnic1</td></tr><tr><td>vSwitch2</td><td>9216</td><td>128</td><td>9000</td><td>vmnic2, vmnic3</td></tr></table>

Switch	Port Group	VLAN ID	Uplinks
vSwitch0	Management Network	0	vmnic0
vSwitch0	VM Network	0	vmnic0
vSwitch1	vmotion	0	vmnic1
vSwitch2	iSER1	0	vmnic2
vSwitch2	iSER2	0	vmnic3

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

Device	Port Group/DVPort	MTU	TCP/IP Stack	Services
vmk0	Management Network	9000	Default	Management
vmk1	vmotion	9000	Default	vMotion
vmk2	iSER1	9000	Default	None
vmk3	iSER2	9000	Default	None

Physical Switch Vendors, Models, and Speeds: HPE SN2700M 100GbE 32QSFP28

Primary Storage

Storage Category: iSCSI Target

Datastores

Datastores	Type	Size	Storage Device
OSDATA-3a523004-cb8c4fff-60a1-b83fd2c922da	VMFSOS	128.6 GB	Local NVMe Disk
datastore1 (1)	VMFS-6	342.5 GB	Local NVMe Disk
deploy	VMFS-6	8.8 TB	LIO-ORG iSCSI Disk
nosql0	VMFS-6	2.2 TB	LIO-ORG iSCSI Disk
nosql1	VMFS-6	2.2 TB	LIO-ORG iSCSI Disk
nosql2	VMFS-6	2.2 TB	LIO-ORG iSCSI Disk
nosql3	VMFS-6	2.2 TB	LIO-ORG iSCSI Disk
nosql4	VMFS-6	2.2 TB	LIO-ORG iSCSI Disk
nosql5	VMFS-6	2.2 TB	LIO-ORG iSCSI Disk
nosql6	VMFS-6	2.2 TB	LIO-ORG iSCSI Disk
nosql7	VMFS-6	2.2 TB	LIO-ORG iSCSI Disk
source	VMFS-6	2.2 TB	LIO-ORG iSCSI Disk
target	VMFS-6	2.2 TB	LIO-ORG iSCSI Disk
tile0	VMFS-6	2.2 TB	LIO-ORG iSCSI Disk
tile1	VMFS-6	2.2 TB	LIO-ORG iSCSI Disk
tile2	VMFS-6	2.2 TB	LIO-ORG iSCSI Disk
tile3	VMFS-6	2.2 TB	LIO-ORG iSCSI Disk
tile4	VMFS-6	2.2 TB	LIO-ORG iSCSI Disk
tile5	VMFS-6	2.2 TB	LIO-ORG iSCSI Disk
tile6	VMFS-6	2.2 TB	LIO-ORG iSCSI Disk
tile7	VMFS-6	2.2 TB	LIO-ORG iSCSI Disk

Number of Storage Devices: 20

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

Storage Device	Size	Type	Vendor	Model	Revision	Path Selection Policy	Path Selection Policy Config	# Working Paths

Revisions	

Local NVMe Disk (Boot Device)	480.0 GB	Direct-Access	NVMe	HPE NS204i-u Gen11 Boot Controller	12141012	FIXED	preferred=none	1
LIO-ORG iSCSI Disk	2.2 TB	Direct-Access	LIO-ORG	nosql2	4.0	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
LIO-ORG iSCSI Disk	2.2 TB	Direct-Access	LIO-ORG	tile2	4.0	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
LIO-ORG iSCSI Disk	2.2 TB	Direct-Access	LIO-ORG	nosql7	4.0	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
LIO-ORG iSCSI Disk	2.2 TB	Direct-Access	LIO-ORG	nosql6	4.0	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
LIO-ORG iSCSI Disk	2.2 TB	Direct-Access	LIO-ORG	infra_source	4.0	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
LIO-ORG iSCSI Disk	2.2 TB	Direct-Access	LIO-ORG	tile0	4.0	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
LIO-ORG iSCSI Disk	2.2 TB	Direct-Access	LIO-ORG	tile6	4.0	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
LIO-ORG iSCSI Disk	2.2 TB	Direct-Access	LIO-ORG	nosql1	4.0	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
LIO-ORG iSCSI Disk	2.2 TB	Direct-Access	LIO-ORG	nosql3	4.0	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
LIO-ORG iSCSI Disk	2.2 TB	Direct-Access	LIO-ORG	infra_target	4.0	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
LIO-ORG iSCSI Disk	2.2 TB	Direct-Access	LIO-ORG	tile7	4.0	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
LIO-ORG iSCSI Disk	2.2 TB	Direct-Access	LIO-ORG	tile5	4.0	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
LIO-ORG iSCSI Disk	2.2 TB	Direct-Access	LIO-ORG	tile3	4.0	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
LIO-ORG iSCSI Disk	2.2 TB	Direct-Access	LIO-ORG	nosql0	4.0	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
LIO-ORG iSCSI Disk	2.2 TB	Direct-Access	LIO-ORG	nosql5	4.0	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
LIO-ORG iSCSI Disk	2.2 TB	Direct-Access	LIO-ORG	tile4	4.0	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
LIO-ORG iSCSI Disk	2.2 TB	Direct-Access	LIO-ORG	tile1	4.0	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
LIO-ORG iSCSI Disk	2.2 TB	Direct-Access	LIO-ORG	nosql4	4.0	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
LIO-ORG iSCSI Disk	8.8 TB	Direct-Access	LIO-ORG	source	4.0	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2

How Datastores Map to Storage Devices	See Storage Notes Section
VMware vSAN Configuration (if used)	None
RAID Configuration (if used)	None

Server Management	
VMware vCenter Server Number of vCPUs	8
VMware vCenter Server Virtual Memory (in GB)	30

Clients	
Total Client VMs (including Prime Client)	5
Number of Client Hosts (all subsequent fields in this section are per Client Host)	2
System Model(s)	• Client Host 1: HPE ProLiant DL385 Gen11 • Client Host 2: HPE ProLiant DL385 Gen11
Processor Vendor(s) and Model(s)	• Client Host 1: AMD EPYC 9754 • Client Host 2: AMD EPYC 9754

<table>
<tr><td>Processor Speed(s) (GHz)</td><td>Client Host 1: 2.25 GHz
Client Host 2: 2.25 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>256</td><td>512</td></tr>
<tr><td>Client Host 2</td><td>2</td><td>256</td><td>512</td></tr>
<tr><td>Total</td><td>4</td><td>512</td><td>1024</td></tr>
</table></td></tr>
<tr><td>NUMA Nodes</td><td>Client Host 1: 4
Client Host 2: 4</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>
</table></td></tr>
<tr><td>Virtual Network Controllers, Speeds, MTUs, 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 rowspan="2">Client Host 1</td><td>vmnic0</td><td>25 Gbps</td><td>Full</td><td>9000</td><td>26.33.1048</td><td>nmlx5_core</td><td>Mellanox Technologies ConnectX-6 Lx EN NIC; 25GbE; dual-port SFP28; PCIe4.0 x8; (MCX631102AN-ADA)</td></tr>
<tr><td>vmnic1</td><td>25 Gbps</td><td>Full</td><td>9000</td><td>26.33.1048</td><td>nmlx5_core</td><td>Mellanox Technologies ConnectX-6 Lx EN NIC; 25GbE; dual-port SFP28; PCIe4.0 x8; (MCX631102AN-ADA)</td></tr>
<tr><td rowspan="2">Client Host 2</td><td>vmnic0</td><td>25 Gbps</td><td>Full</td><td>9000</td><td>26.33.1048</td><td>nmlx5_core</td><td>Mellanox Technologies ConnectX-6 Lx EN NIC; 25GbE; dual-port SFP28; PCIe4.0 x8; (MCX631102AN-ADA)</td></tr>
<tr><td>vmnic1</td><td>25 Gbps</td><td>Full</td><td>9000</td><td>26.33.1048</td><td>nmlx5_core</td><td>Mellanox Technologies ConnectX-6 Lx EN NIC; 25GbE; dual-port SFP28; PCIe4.0 x8; (MCX631102AN-ADA)</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, vmnic1</td></tr>
<tr><td>Client Host 2</td><td>vSwitch0</td><td>9216</td><td>128</td><td>9000</td><td>vmnic0, vmnic1</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="2">Client Host 1</td><td>vSwitch0</td><td>Management Network</td><td>0</td><td>vmnic0, vmnic1</td></tr>
<tr><td>vSwitch0</td><td>VM Network</td><td>0</td><td>vmnic0, vmnic1</td></tr>
<tr><td rowspan="2">Client Host 2</td><td>vSwitch0</td><td>Management Network</td><td>0</td><td>vmnic0, vmnic1</td></tr>
<tr><td>vSwitch0</td><td>VM Network</td><td>0</td><td>vmnic0, vmnic1</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>vSAN, Management, vMotion</td></tr>
<tr><td>Client Host 2</td><td>vmk0</td><td>Management Network</td><td>9000</td><td>Default</td><td>vSAN, Management, vMotion</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>VMware ESXi 8.0 Update 3, Build 24022510</td></tr>
</table>

Notes for Workload

Template deployed with disk type: Thick Eager

Virtualization Software Notes

- vSphere DRS Enabled
- vSphere DRS Automation Level set to Fully Automated
- vSphere DRS Migration Threshold set to 1
- vSphere DRS Advanced Option AggressiveCPUActive set to 1
- Logical CPU layout changed for all multi-CPU VMs to 1 socket with multiple cores except Template, PrimeClient, and Client VMs (default single core per socket)
- Logging was disabled for all VMs (default enabled)
- All DS35DB, NoSQLBench, SocialNetwork, and Auction K VMs had CPU shares set to High (default Normal)
- All Standby VMs had CPU shares set to Low (default Normal)
- All memory reserved (LockedToMax) for all DS35DB VMs
- All DS35DB VMs had memory shares set to high
- sched.mem.lpage.enable1GPage set to TRUE for all DS35DB VMs (default FALSE)
- CD/DVD device was removed from all VMs (default present)
- PrimeClient's second virtual disk configured to be 1 TB (default: 50 GB)

SUT Host ESXi Advanced Settings:

Advanced Setting	Host 1	Host 2	Default
Cpu.CreditAgePeriod	1000	1000	3000
Cpu.HTWholeCoreThreshold	0	0	800
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.LocalityWeightActionAffinity	0	0	130
Numa.MigImbalanceThreshold	57	57	10
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	Performance	Performance	Balanced
UserVars.SuppressShellWarning	1	1	0

SUT Host ESXi Module Options:

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

Server Notes

Server BIOS settings

- HPE Workload Profile set to "Virtualization - Max Performance" (default: General Power Efficient Compute)
- Thermal Configuration set to Maximum Cooling (default: Optimal Cooling)
- Determinism control set to manual (default: Auto)
- Minimum Processor Idle Power Core C-state set to No-Cstates (default: C6)
- Memory Patrol Scrubbing set to Disabled (default: Enabled)
- ACPI CST C2 Latency set to 18 ms (default: 800 ms)

Networking Notes

SUT hosts

- vSwitch0 configuration
  - Uplink: vmnic0
  - Usage: vmk0 (MTU 9000) - used for management and VM network
- vSwitch1 configuration
  - Uplink: vmnic1
  - Usage: vmk1 (MTU 9000) - used for vMotion
- vSwitch2 configuration
  - Uplink: vmnic2, vmnic3
  - Usage:
    - vmk2 (MTU 9000) - configured for iSCSI traffic, vmnic2 configured as the Failover Override Active Adapter for Portgroup iSER1
    - vmk3 (MTU 9000) - configured for iSCSI traffic, vmnic3 configured as the Failover Override Active Adapter for Portgroup iSER2

Client hosts

- vSwitch0 configuration
  - Uplink: vmnic0, vmnic1
  - Usage: vmk0 (MTU 9000) - used for management, vMotion, and Client VM network
    - vSAN networking was enabled, but unused on vmk0

Storage Notes

OS Storage

- On each SUT host, VMware ESXi 8.0 Update 3e was installed on HPE NS204i-u Gen11 NVMe Hot Plug Boot Optimized Storage Device which provides a RAID1 volume on 2 x 480 GB NVMe M.2 SSDs
- On each client host, VMware ESXi 8.0 Update 3 was installed on HPE NS204i-u Gen11 NVMe Hot Plug Boot Optimized Storage Device which provides a RAID1 volume on 2 x 480 GB NVMe M.2 SSDs

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

- Hardware details
  - 2 x HPE ProLiant DL385 Gen11
    - 2 x AMD EPYC 9374F (3.85 GHz)
    - 1.5TB (24 x 64GB 2Rx4 5600 MHz DDR5 RDIMMs)
    - 1 x 2-port Mellanox Technologies ConnectX-7 VPI NDR200/HDR IB /200GbE NIC used as iSCSI target controller (Operating at 100 Gbps speed)
    - 1 x HPE NS204i-u Gen11 NVMe Hot Plug Boot Optimized Storage Device
    - 24 x HPE 3.84TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM PM1743
- Software Details
  - Operating System: Canonical Ubuntu Linux 24.04 LTS - 6.8.0-57-generic
  - iSCSI Target SW: LIO
  - Software RAID configuration
    - On each iSCSI Target, two RAID 10 volume groups created on 12 x HPE 3.84TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM PM1743
- All disks within each RAID 10 volume group were exclusively connected to socket 1 or socket 2

- LUN details

- iSCSI Target 1, socket 1, RAID 10 volume group
  - 3 x 2TB volume groups exported as LUNs named nosql0, nosql2, and source
    - nosql0 LUN stored AuctionWebDNosql, NoSQLBenchA, NoSQLBenchB, and NoSQLBenchC VMs of Tile0
    - nosql2 LUN stored AuctionWebDNosql, NoSQLBenchA, NoSQLBenchB, and NoSQLBenchC VMs of Tile2
    - source LUN stored AuctionWebF and DS35WebA VMs for all the tiles
- iSCSI Target 1, socket 2, RAID 10 volume group
  - 2 x 2TB volume groups exported as LUNs named nosql1 and target
    - nosql1 LUN stored AuctionWebDNosql, NoSQLBenchA, NoSQLBenchB, and NoSQLBenchC VMs of Tile1
    - target LUN was used for Storage vMotion and XvMotion operations
- iSCSI Target 2, socket 1, RAID 10 volume group

    - 2 x 2TB volume groups exported as LUNs named tile0 and tile2
        - tile0 LUN stored AuctionAppA, AuctionAppB, AuctionAppC, AuctionWebA, AuctionWebB, AuctionWebC, AuctionWebEDB, DS35WebB, DS35WebC, Standby, SocialNetwork VMs of Tile0
        - tile2 LUN stored AuctionAppA, AuctionAppB, AuctionAppC, AuctionWebA, AuctionWebB, AuctionWebC, AuctionWebEDB, DS35WebB, DS35WebC, Standby, SocialNetwork VMs of Tile2
- iSCSI Target 2, socket 2, RAID 10 volume group
    - 1 x 2TB volume group exported as LUNs named tile1
        - tile1 LUN stored AuctionAppA, AuctionAppB, AuctionAppC, AuctionWebA, AuctionWebB, AuctionWebC, AuctionWebEDB, DS35WebB, DS35WebC, Standby, SocialNetwork VMs of Tile1

Server Management Notes

VMware vCenter Server Appliance 8.0 Update 3, Build 24022515 was hosted on Client host2 which is part of the client cluster

Operating System Notes

SUT Host ESXi Image Profile: HPE-Custom-AddOn_803.0.0.12.1.0-11

Software Notes

None

Client Notes

- vSphere DRS Disabled

Client Host ESXi Advanced Settings:

Advanced Setting	Host 1	Host 2	Default
Power.CpuPolicy	Performance	Performance	Balanced
UserVars.HostClientCEIPOptIn	2	2	0
UserVars.SuppressShellWarning	1	1	0

Client Host ESXi Module Options:

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

Client Host ESXi Image Profile: (Updated) HPE-Custom-AddOn_803.0.0.11.7.0-23

Client Storage

- 2 * HPE 3.84TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM PM1743 SSD was used for all client VMs, including the PrimeClient and the vCenter Server VM
    - All Client VMs stored on the first NVMe of each Client host except the PrimeClient
    - The PrimeClient and VCSA VM were stored on the second NVMe of the second Client host

Client Host VMs:

- Client Host 1: Client0, Client2
- Client Host 2: Client1, Client3, PrimeClient, VCSA8U3

Other Notes

None

VMmark4.properties Settings

- TileDelay = 15 (default 60)
- LogLevel = DEBUG (default INFO)
- ReporterSkipNonCompliant = 1 (default 0)
- ErrorImmediate = 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	tile0	VM Network	17	12325
AuctionAppA1	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile1	VM Network	17	12325
AuctionAppA2	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile2	VM Network	17	12325
AuctionAppA3	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile3	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**
AuctionAppB0	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile0	VM Network	17	12325
AuctionAppB1	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile1	VM Network	17	12325
AuctionAppB2	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile2	VM Network	17	12325
AuctionAppB3	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile3	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**
AuctionAppC0	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile0	VM Network	17	12325
AuctionAppC1	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile1	VM Network	17	12325
AuctionAppC2	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile2	VM Network	17	12325
AuctionAppC3	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile3	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**
AuctionKA0	8	8	32768	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	tile0	VM Network	17	12325
AuctionKA1	8	8	32768	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	tile1	VM Network	17	12325
AuctionKA2	8	8	32768	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	tile2	VM Network	17	12325
AuctionKA3	8	8	32768	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	tile3 deploy	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	8	32768	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	tile0	VM Network	17	12325
AuctionKB1	8	8	32768	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	tile1	VM Network	17	12325
AuctionKB2	8	8	32768	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	tile2	VM Network	17	12325
AuctionKB3	8	8	32768	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	tile3 deploy	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**
AuctionKC0	8	8	32768	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	tile0	VM Network	17	12325
AuctionKC1	8	8	32768	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	tile1	VM Network	17	12325
AuctionKC2	8	8	32768	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	tile2	VM Network	17	12325
AuctionKC3	8	8	32768	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	tile3 deploy	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**
AuctionKD0	8	8	32768	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	tile0	VM Network	17	12325
AuctionKD1	8	8	32768	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	tile1	VM Network	17	12325
AuctionKD2	8	8	32768	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	tile2	VM Network	17	12325
AuctionKD3	8	8	32768	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	tile3 deploy	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**
AuctionWebA0	4	4	12288	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile0	VM Network	17	12325

AuctionWebA1	4	4	12288	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile1	VM Network	17	12325
AuctionWebA2	4	4	12288	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile2	VM Network	17	12325
AuctionWebA3	4	4	12288	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile3	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**
AuctionWebB0	4	4	12288	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile0	VM Network	17	12325
AuctionWebB1	4	4	12288	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile1	VM Network	17	12325
AuctionWebB2	4	4	12288	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile2	VM Network	17	12325
AuctionWebB3	4	4	12288	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile3	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**
AuctionWebC0	4	4	12288	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile0	VM Network	17	12325
AuctionWebC1	4	4	12288	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile1	VM Network	17	12325
AuctionWebC2	4	4	12288	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile2	VM Network	17	12325
AuctionWebC3	4	4	12288	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile3	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**
AuctionWebDNosql0	4	4	20480	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	nosql0	VM Network	17	12325
AuctionWebDNosql1	4	4	20480	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	nosql1	VM Network	17	12325
AuctionWebDNosql2	4	4	20480	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	nosql2	VM Network	17	12325
AuctionWebDNosql3	4	4	20480	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	nosql3	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**
AuctionWebEDB0	4	4	16384	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile0	VM Network	17	12325
AuctionWebEDB1	4	4	16384	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile1	VM Network	17	12325
AuctionWebEDB2	4	4	16384	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile2	VM Network	17	12325
AuctionWebEDB3	4	4	16384	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile3	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**
AuctionWebF0	2	2	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	source	VM Network	17	12325
AuctionWebF1	2	2	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	source	VM Network	17	12325
AuctionWebF2	2	2	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	source	VM Network	17	12325
AuctionWebF3	2	2	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	source	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**
DS35DB0	24	24	49152	TRUE	FALSE	Removed	0	Unlimited	high	49152	Unlimited	high	TRUE	TRUE	normal	tile0	VM Network	17	12325
DS35DB1	24	24	49152	TRUE	FALSE	Removed	0	Unlimited	high	49152	Unlimited	high	TRUE	TRUE	normal	tile1	VM Network	17	12325
DS35DB2	24	24	49152	TRUE	FALSE	Removed	0	Unlimited	high	49152	Unlimited	high	TRUE	TRUE	normal	tile2	VM Network	17	12325
DS35DB3	24	24	49152	TRUE	FALSE	Removed	0	Unlimited	high	49152	Unlimited	high	TRUE	TRUE	normal	tile3	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**
DS35WebA0	6	6	512	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	source	VM Network	17	12325
DS35WebA1	6	6	512	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	source	VM Network	17	12325
DS35WebA2	6	6	512	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	source	VM Network	17	12325
DS35WebA3	6	6	512	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	source	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**
DS35WebB0	6	6	512	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile0	VM Network	17	12325
DS35WebB1	6	6	512	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile1	VM Network	17	12325
DS35WebB2	6	6	512	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile2	VM Network	17	12325
DS35WebB3	6	6	512	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile3	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**
DS35WebC0	6	6	512	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile0	VM Network	17	12325
DS35WebC1	6	6	512	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile1	VM Network	17	12325

DS35WebC2	6	6	512	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile2	VM Network	17	12325
DS35WebC3	6	6	512	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile3	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**
NoSQLBenchA0	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	nosql0	VM Network	17	12325
NoSQLBenchA1	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	nosql1	VM Network	17	12325
NoSQLBenchA2	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	nosql2	VM Network	17	12325
NoSQLBenchA3	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	nosql3	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**
NoSQLBenchB0	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	nosql0	VM Network	17	12325
NoSQLBenchB1	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	nosql1	VM Network	17	12325
NoSQLBenchB2	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	nosql2	VM Network	17	12325
NoSQLBenchB3	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	nosql3	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**
NoSQLBenchC0	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	nosql0	VM Network	17	12325
NoSQLBenchC1	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	nosql1	VM Network	17	12325
NoSQLBenchC2	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	nosql2	VM Network	17	12325
NoSQLBenchC3	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	nosql3	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**
SocialNetwork0	36	36	16384	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	tile0	VM Network	17	12325
SocialNetwork1	36	36	16384	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	tile1	VM Network	17	12325
SocialNetwork2	36	36	16384	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	tile2	VM Network	17	12325
SocialNetwork3	36	36	16384	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	tile3	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**
Standby0	1	1	2048	TRUE	FALSE	Removed	0	Unlimited	low	0	Unlimited	normal	FALSE	FALSE	normal	tile0	VM Network	17	12325
Standby1	1	1	2048	TRUE	FALSE	Removed	0	Unlimited	low	0	Unlimited	normal	FALSE	FALSE	normal	tile1	VM Network	17	12325
Standby2	1	1	2048	TRUE	FALSE	Removed	0	Unlimited	low	0	Unlimited	normal	FALSE	FALSE	normal	tile2	VM Network	17	12325
Standby3	1	1	2048	TRUE	FALSE	Removed	0	Unlimited	low	0	Unlimited	normal	FALSE	FALSE	normal	tile3	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**
VMmark-4.0.2-209	4	1	32768	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	source	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	64	1	98304	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	client1-datastore1	VM Network	17	12325
Client1	64	1	98304	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	client2-datastore1	VM Network	17	12325
Client2	64	1	98304	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	client1-datastore1	VM Network	17	12325
Client3	64	1	98304	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	client2-datastore1	VM Network	17	12325
PrimeClient	4	1	32768	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	client2-datastore2	VM Network, VM Network	17	12325
VCSA8U3	8	1	30720	FALSE	TRUE	Present	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	client2-datastore2	VM Network	10	12389
