

VMmark[®] 4.0.1 Disclosure

Server Vendor & Model: Supermicro AS -2126HS-TN
Storage Vendor & Model: PureStorage FlashArray FA-X90R2
Hypervisor: VMware ESXi 8.0 Update 3, Build 24022510
Server Management Software: VMware vCenter Server 8.0 Update 3, Build 24022515

**VMmark 4.0.1 Score =
3.34 @ 4 Tiles**

Number of Hosts: 2	Uniform Hosts: yes	Total sockets/cores/threads in test: 4/256/512
Tested By: Supermicro	Test Date: 09-24-2024	SUT Availability Date: 01-10-2025
Performance Section Performance	Configuration Section Configuration	Notes Section Notes for Workload
Virtual Machines Section Virtual Machines		

Performance

TILE_0_Scores	WVAuctionVM	WVAuctionK8S	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC	SocialNetwork	Standby	
p0	14109.68	9252.14	3050.95	2329.62	1774.62	51310.87	51307.22	51311.51	68.32	1.00	
p1	14088.92	9219.10	3040.03	2170.93	1561.00	49480.02	49480.78	49479.99	66.92	1.00	
p2	14059.80	9235.01	3041.05	2324.50	1788.17	47402.95	47402.72	47402.70	66.33	1.00	
TILE_0_Ratios	WVAuctionVM	WVAuctionK8S	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC	SocialNetwork	Standby	Geo.Mean
p0	1.01	1.01	1.05	1.08	1.16	0.91	0.91	0.91	0.95	1.00	0.99
p1	1.01	1.00	1.05	1.01	1.02	0.88	0.88	0.88	0.93	1.00	0.96
p2	1.00	1.00	1.05	1.08	1.17	0.84	0.84	0.84	0.92	1.00	0.97
TILE_0_QoS	WVAuctionVM%	WVAuctionK8S%	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC			
p0	0.57 0.06	0.37 0.00	331.12	357.31	380.60	0.68	0.68	0.68			
p1	0.57 0.05	0.38 0.00	337.01	363.03	372.49	0.71	0.71	0.71			
p2	0.66 0.12	0.39 0.00	332.47	357.01	373.58	0.75	0.75	0.75			
TILE_1_Scores	WVAuctionVM	WVAuctionK8S	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC	SocialNetwork	Standby	
p0	14086.60	9252.91	3080.22	2269.60	1726.75	50411.14	50410.09	50250.97	71.71	1.00	
p1	14062.72	9223.25	3063.35	2260.12	1632.03	48461.12	48460.73	48461.44	71.38	1.00	
p2	14084.04	9240.53	3052.62	2255.62	1708.60	46609.95	46610.30	46610.62	70.97	1.00	
TILE_1_Ratios	WVAuctionVM	WVAuctionK8S	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC	SocialNetwork	Standby	Geo.Mean
p0	1.01	1.01	1.06	1.06	1.13	0.89	0.89	0.89	1.00	1.00	0.99
p1	1.00	1.00	1.06	1.05	1.07	0.86	0.86	0.86	0.99	1.00	0.97
p2	1.01	1.00	1.05	1.05	1.12	0.82	0.82	0.82	0.99	1.00	0.96
TILE_1_QoS	WVAuctionVM%	WVAuctionK8S%	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC			
p0	0.62 0.08	0.37 0.00	317.53	343.14	359.66	0.70	0.69	0.69			

p1	0.64 0.09	0.36 0.00	329.38	355.12	380.55	0.73	0.73	0.73			
p2	0.73 0.14	0.37 0.00	325.08	357.04	373.51	0.77	0.77	0.77			
TILE_2_Scores	WVAuctionVM	WVAuctionK8S	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC	SocialNetwork	Standby	
p0	14081.40	9241.83	3047.18	2263.65	1698.72	54008.99	54011.31	54010.06	69.51	1.00	
p1	14108.42	9237.85	3037.72	2251.55	1622.85	51188.85	51189.02	51189.50	69.38	1.00	
p2	14117.04	9235.74	3023.65	2244.90	1693.62	48687.52	48687.86	48688.85	68.57	1.00	
TILE_2_Ratios	WVAuctionVM	WVAuctionK8S	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC	SocialNetwork	Standby	Geo.Mean
p0	1.01	1.00	1.05	1.05	1.11	0.96	0.96	0.96	0.97	1.00	1.01
p1	1.01	1.00	1.05	1.05	1.06	0.91	0.91	0.91	0.96	1.00	0.98
p2	1.01	1.00	1.04	1.04	1.11	0.86	0.86	0.86	0.95	1.00	0.97
TILE_2_QoS	WVAuctionVM%	WVAuctionK8S%	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC			
p0	0.59 0.07	0.35 0.00	333.77	353.13	380.99	0.66	0.66	0.66			
p1	0.57 0.04	0.36 0.00	336.17	362.31	389.77	0.70	0.70	0.70			
p2	0.63 0.08	0.36 0.01	341.82	362.68	390.59	0.74	0.75	0.75			
TILE_3_Scores	WVAuctionVM	WVAuctionK8S	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC	SocialNetwork	Standby	
p0	14109.17	9242.04	3062.22	2265.18	1715.58	51140.45	51135.11	51138.14	71.64	1.00	
p1	14115.53	9227.88	3017.70	2242.22	1612.80	49204.69	49204.52	49204.22	70.26	1.00	
p2	14105.15	9228.43	3032.05	2233.85	1683.83	47366.99	47366.56	47367.01	69.21	1.00	
TILE_3_Ratios	WVAuctionVM	WVAuctionK8S	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC	SocialNetwork	Standby	Geo.Mean
p0	1.01	1.00	1.06	1.05	1.12	0.91	0.91	0.91	0.99	1.00	0.99
p1	1.01	1.00	1.04	1.04	1.05	0.87	0.87	0.87	0.98	1.00	0.97
p2	1.01	1.00	1.05	1.04	1.10	0.84	0.84	0.84	0.96	1.00	0.96
TILE_3_QoS	WVAuctionVM%	WVAuctionK8S%	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC			
p0	0.63 0.07	0.35 0.00	325.72	347.97	371.14	0.69	0.68	0.68			
p1	0.63 0.12	0.37 0.00	346.36	363.54	397.28	0.71	0.71	0.71			
p2	0.66 0.08	0.38 0.00	341.94	367.69	397.64	0.74	0.74	0.74			
p0_score:	3.98										
p1_score:	3.88										
p2_score:	3.85										

Infrastructure_Operations_Scores:					vMotion	SVMotion	XVMotion	Deploy
Completed_Ops_PerHour					29.50	17.00	17.00	17.00
Avg_Seconds_To_Complete					1.10	2.56	3.21	170.82
Failures					0.00	0.00	0.00	0.00
Ratio					1.00	1.31	1.31	1.17
Number_Of_Threads					1	1	1	1

Summary	Run_Is_Compliant	Median_Phase(p1)
Unreviewed_VMmark4_Applications_Score	3.88	
Unreviewed_VMmark4_Infrastructure_Score	1.19	
Unreviewed_VMmark4_Score	3.34 @ 4 Tiles	

Configuration

Virtualization Software							
Hypervisor Vendor, Product, Version, and Build / Availability Date (MM-DD-YYYY)	VMware ESXi 8.0 Update 3, Build 24022510 / 06-25-2024						
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	Supermicro AS -2126HS-TN						
Processor Vendor and Model	AMD EPYC 9575F						
Processor Speed (GHz) / Turbo Boost Speed (GHz)	3.3 GHz / 5.0 GHz						
Total Sockets/Total Cores/Total Threads	2 Sockets / 128 Cores / 256 Threads						
NUMA Nodes	2						
BIOS Version	1.1						
Memory Size (in GB, Number of DIMMs)	Physical Memory (BIOS): 1536 GB Physical Memory (ESXi): 1536 GB Number of DIMMs: 24						
	Location	Size	Speed	Max Speed	Rank	Type	Detail
	P1-DIMMA1	64 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	P1-DIMMB1	64 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	P1-DIMMC1	64 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	P1-DIMMD1	64 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered

Memory Type and Speed	P1-DIMME1	64 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	P1-DIMMF1	64 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	P1-DIMMG1	64 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	P1-DIMMH1	64 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	P1-DIMMI1	64 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	P1-DIMMJ1	64 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	P1-DIMMK1	64 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	P1-DIMML1	64 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	P2-DIMMA1	64 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	P2-DIMMB1	64 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	P2-DIMMC1	64 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	P2-DIMMD1	64 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	P2-DIMME1	64 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	P2-DIMMF1	64 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	P2-DIMMG1	64 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	P2-DIMMH1	64 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	P2-DIMMI1	64 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	P2-DIMMJ1	64 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	P2-DIMMK1	64 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	P2-DIMML1	64 GB	6000 MT/s	6400 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	Driver	Firmware		
	vmhba0	Emulex LPe35002-M2 2-Port 32Gb Fibre Channel Adapter	16 Gbps	lpfc	14.0.505.12		
	vmhba1	Emulex LPe35002-M2 2-Port 32Gb Fibre Channel Adapter	16 Gbps	lpfc	14.0.505.12		
	vmhba64	Emulex LPe35002-M2 2-Port 32Gb Fibre Channel Adapter	16 Gbps	lpfc	14.0.505.12		
	vmhba65	Emulex LPe35002-M2 2-Port 32Gb Fibre Channel Adapter	16 Gbps	lpfc	14.0.505.12		
Other Hardware	2x of 2KW Redundant Powersupply; PWS-2K07A-1R Servers were air-cooled.						
Other Software	None						
BIOS Availability Date (MM-DD-YYYY)	01-10-2025						
Hardware Availability Date	01-10-2025						

(MM-DD-YYYY)

Software Availability Date (MM-DD-YYYY) 06-25-2024

Network

Number of Virtual Network Controllers 2

Device	Speed	Duplex	MTU	Firmware	Driver	Description
vmnic2	25 Gbps	Full	9000	8.0.0.1015 rx0 tx0	sfvmk	Solarflare XtremeScale X2522 25G Network Adapter
vmnic3	25 Gbps	Full	9000	8.0.0.1015 rx0 tx0	sfvmk	Solarflare XtremeScale X2522 25G Network Adapter

Number of Virtual Switches 2

Switch	Ports	Configured Ports	MTU	Uplinks
vSwitch0	9216	128	9000	vmnic2
vSwitch1	9216	128	9000	vmnic3

Switch	Port Group	VLAN ID	Uplinks
vSwitch0	Management Network	0	vmnic2
vSwitch1	VM Network	0	vmnic3

Device	Port Group/DVPort	MTU	TCP/IP Stack	Services
vmk0	Management Network	9000	Default	vMotion, Management

Physical Switch Vendors, Models, and Speeds Mellanox MSN2700 32-port Switch

Primary Storage

Storage Category FC SAN

Datstores	Type	Size	Storage Device
Deploy	VMFS-6	35.2 TB	PURE Fibre Channel Disk
DeployDB	VMFS-6	35.2 TB	PURE Fibre Channel Disk
OSDATA-66da2bff-e845cc5d-b881-905a08103d36	VMFSOS	25.5 GB	PURE Fibre Channel Disk
db0	VMFS-6	2.2 TB	PURE Fibre Channel Disk
db1	VMFS-6	2.2 TB	PURE Fibre Channel Disk
db2	VMFS-6	2.2 TB	PURE Fibre Channel Disk
db3	VMFS-6	2.2 TB	PURE Fibre Channel Disk
db4	VMFS-6	2.2 TB	PURE Fibre Channel Disk
db5	VMFS-6	2.2 TB	PURE Fibre Channel Disk
db6	VMFS-6	2.2 TB	PURE Fibre Channel Disk
db7	VMFS-6	2.2 TB	PURE Fibre Channel Disk

Datstores

infra_source	VMFS-6	8.8 TB	PURE Fibre Channel Disk
infra_target	VMFS-6	8.8 TB	PURE Fibre Channel Disk
tile0	VMFS-6	2.2 TB	PURE Fibre Channel Disk
tile1	VMFS-6	2.2 TB	PURE Fibre Channel Disk
tile2	VMFS-6	2.2 TB	PURE Fibre Channel Disk
tile3	VMFS-6	2.2 TB	PURE Fibre Channel Disk
tile4	VMFS-6	2.2 TB	PURE Fibre Channel Disk
tile5	VMFS-6	2.2 TB	PURE Fibre Channel Disk
tile6	VMFS-6	2.2 TB	PURE Fibre Channel Disk
tile7	VMFS-6	2.2 TB	PURE Fibre Channel Disk

Number of Storage Devices

22

Storage Device	Size	Type	Vendor	Model	Revision	Path Selection Policy	Path Selection Policy Config	# Working Paths
PURE Fibre Channel Disk (Boot Device)	34.4 GB	Direct-Access	PURE	FlashArray	8888	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
Local NVMe Disk	500.1 GB	Direct-Access	NVMe	Samsung SSD 980 PRO 500GB	5B2QGXA7	FIXED	preferred=none	1
PURE Fibre Channel Disk	2.2 TB	Direct-Access	PURE	FlashArray	8888	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
PURE Fibre Channel Disk	2.2 TB	Direct-Access	PURE	FlashArray	8888	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
PURE Fibre Channel Disk	2.2 TB	Direct-Access	PURE	FlashArray	8888	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
PURE Fibre Channel Disk	2.2 TB	Direct-Access	PURE	FlashArray	8888	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
PURE Fibre Channel Disk	2.2 TB	Direct-Access	PURE	FlashArray	8888	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
PURE Fibre Channel Disk	2.2 TB	Direct-Access	PURE	FlashArray	8888	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
PURE Fibre Channel Disk	2.2 TB	Direct-Access	PURE	FlashArray	8888	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
PURE Fibre Channel Disk	2.2 TB	Direct-Access	PURE	FlashArray	8888	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
PURE Fibre Channel Disk	2.2 TB	Direct-Access	PURE	FlashArray	8888	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
PURE Fibre Channel Disk	2.2 TB	Direct-Access	PURE	FlashArray	8888	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
PURE Fibre Channel Disk	2.2 TB	Direct-Access	PURE	FlashArray	8888	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2

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

	PURE Fibre Channel Disk	2.2 TB	Direct-Access	PURE	FlashArray	8888	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
	PURE Fibre Channel Disk	2.2 TB	Direct-Access	PURE	FlashArray	8888	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
	PURE Fibre Channel Disk	2.2 TB	Direct-Access	PURE	FlashArray	8888	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
	PURE Fibre Channel Disk	2.2 TB	Direct-Access	PURE	FlashArray	8888	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
	PURE Fibre Channel Disk	2.2 TB	Direct-Access	PURE	FlashArray	8888	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
	PURE Fibre Channel Disk	2.2 TB	Direct-Access	PURE	FlashArray	8888	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
	PURE Fibre Channel Disk	8.8 TB	Direct-Access	PURE	FlashArray	8888	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
	PURE Fibre Channel Disk	8.8 TB	Direct-Access	PURE	FlashArray	8888	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
	PURE Fibre Channel Disk	35.2 TB	Direct-Access	PURE	FlashArray	8888	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2
	PURE Fibre Channel Disk	35.2 TB	Direct-Access	PURE	FlashArray	8888	VMW_PSP_RR	policy=iops,iops=1,bytes=10485760,useANO=0	2

How Datastores Map to Storage Devices	All LUNs are backed by the same NVMe disks present on the PureStorage FlashArray FA-X90R2
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)	4
System Model(s)	<ul style="list-style-type: none"> • Client Host 1: Supermicro AS -1124US-TNRP • Client Host 2: Supermicro AS -1124US-TNRP • Client Host 3: Supermicro AS -1124US-TNRP • Client Host 4: Supermicro AS -1124US-TNRP

Processor Vendor(s) and Model(s)	<ul style="list-style-type: none"> Client Host 1: AMD EPYC 7763 Client Host 2: AMD EPYC 7763 Client Host 3: AMD EPYC 7763 Client Host 4: AMD EPYC 7763 																																																																											
Processor Speed(s) (GHz)	<ul style="list-style-type: none"> Client Host 1: 2.45 GHz Client Host 2: 2.45 GHz Client Host 3: 2.45 GHz Client Host 4: 2.45 GHz 																																																																											
Total Sockets/Total Cores/Total Threads	<table border="1"> <thead> <tr> <th>Client Host</th> <th>Sockets</th> <th>Cores</th> <th>Threads</th> </tr> </thead> <tbody> <tr> <td>Client Host 1</td> <td>2</td> <td>128</td> <td>256</td> </tr> <tr> <td>Client Host 2</td> <td>2</td> <td>128</td> <td>256</td> </tr> <tr> <td>Client Host 3</td> <td>2</td> <td>128</td> <td>256</td> </tr> <tr> <td>Client Host 4</td> <td>2</td> <td>128</td> <td>256</td> </tr> <tr> <td>Total</td> <td>8</td> <td>512</td> <td>1024</td> </tr> </tbody> </table>								Client Host	Sockets	Cores	Threads	Client Host 1	2	128	256	Client Host 2	2	128	256	Client Host 3	2	128	256	Client Host 4	2	128	256	Total	8	512	1024																																												
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Client Host 4	2	128	256																																																																									
Total	8	512	1024																																																																									
NUMA Nodes	<ul style="list-style-type: none"> Client Host 1: 2 Client Host 2: 2 Client Host 3: 2 Client Host 4: 2 																																																																											
Memory Size (in GB) per Client Host	<table border="1"> <thead> <tr> <th>Client Host</th> <th>BIOS</th> <th>ESXi</th> </tr> </thead> <tbody> <tr> <td>Client Host 1</td> <td>2048 GB</td> <td>2036 GB</td> </tr> <tr> <td>Client Host 2</td> <td>2048 GB</td> <td>2036 GB</td> </tr> <tr> <td>Client Host 3</td> <td>2048 GB</td> <td>2036 GB</td> </tr> <tr> <td>Client Host 4</td> <td>1920 GB</td> <td>1920 GB</td> </tr> </tbody> </table>								Client Host	BIOS	ESXi	Client Host 1	2048 GB	2036 GB	Client Host 2	2048 GB	2036 GB	Client Host 3	2048 GB	2036 GB	Client Host 4	1920 GB	1920 GB																																																					
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Virtual Network Controllers, Speeds, MTUs, Firmware, Drivers, Vendors, and Models	<table border="1"> <thead> <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> </thead> <tbody> <tr> <td rowspan="2">Client Host 1</td> <td>vmnic0</td> <td>100 Gbps</td> <td>Full</td> <td>9000</td> <td>20.28.4000</td> <td>nmlx5_core</td> <td>Mellanox Technologies MT28908 Family [ConnectX-6]</td> </tr> <tr> <td>vmnic1</td> <td>100 Gbps</td> <td>Full</td> <td>9000</td> <td>20.28.4000</td> <td>nmlx5_core</td> <td>Mellanox Technologies MT28908 Family [ConnectX-6]</td> </tr> <tr> <td rowspan="2">Client Host 2</td> <td>vmnic0</td> <td>100 Gbps</td> <td>Full</td> <td>9000</td> <td>20.27.1016</td> <td>nmlx5_core</td> <td>Mellanox Technologies MT28908 Family [ConnectX-6]</td> </tr> <tr> <td>vmnic1</td> <td>100 Gbps</td> <td>Full</td> <td>9000</td> <td>20.27.1016</td> <td>nmlx5_core</td> <td>Mellanox Technologies MT28908 Family [ConnectX-6]</td> </tr> <tr> <td rowspan="2">Client Host 3</td> <td>vmnic0</td> <td>100 Gbps</td> <td>Full</td> <td>9000</td> <td>20.28.4000</td> <td>nmlx5_core</td> <td>Mellanox Technologies MT28908 Family [ConnectX-6]</td> </tr> <tr> <td>vmnic1</td> <td>100 Gbps</td> <td>Full</td> <td>9000</td> <td>20.28.4000</td> <td>nmlx5_core</td> <td>Mellanox Technologies MT28908 Family [ConnectX-6]</td> </tr> <tr> <td rowspan="2">Client Host 4</td> <td>vmnic0</td> <td>100 Gbps</td> <td>Full</td> <td>9000</td> <td>20.27.1016</td> <td>nmlx5_core</td> <td>Mellanox Technologies MT28908 Family [ConnectX-6]</td> </tr> <tr> <td>vmnic1</td> <td>100 Gbps</td> <td>Full</td> <td>9000</td> <td>20.27.1016</td> <td>nmlx5_core</td> <td>Mellanox Technologies MT28908 Family [ConnectX-6]</td> </tr> </tbody> </table>								Client Host	Device	Speed	Duplex	MTU	Firmware	Driver	Description	Client Host 1	vmnic0	100 Gbps	Full	9000	20.28.4000	nmlx5_core	Mellanox Technologies MT28908 Family [ConnectX-6]	vmnic1	100 Gbps	Full	9000	20.28.4000	nmlx5_core	Mellanox Technologies MT28908 Family [ConnectX-6]	Client Host 2	vmnic0	100 Gbps	Full	9000	20.27.1016	nmlx5_core	Mellanox Technologies MT28908 Family [ConnectX-6]	vmnic1	100 Gbps	Full	9000	20.27.1016	nmlx5_core	Mellanox Technologies MT28908 Family [ConnectX-6]	Client Host 3	vmnic0	100 Gbps	Full	9000	20.28.4000	nmlx5_core	Mellanox Technologies MT28908 Family [ConnectX-6]	vmnic1	100 Gbps	Full	9000	20.28.4000	nmlx5_core	Mellanox Technologies MT28908 Family [ConnectX-6]	Client Host 4	vmnic0	100 Gbps	Full	9000	20.27.1016	nmlx5_core	Mellanox Technologies MT28908 Family [ConnectX-6]	vmnic1	100 Gbps	Full	9000	20.27.1016	nmlx5_core	Mellanox Technologies MT28908 Family [ConnectX-6]
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Client Host 2	vmnic0	100 Gbps	Full	9000	20.27.1016	nmlx5_core	Mellanox Technologies MT28908 Family [ConnectX-6]																																																																					
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	vSwitch0	9216	128	9000	vmnic0																																																																							

Virtual Switches, Ports, Port Groups, MTUs, and Uplinks

Client Host 1	vSwitch1	9216	128	9000	vmnic1
	vSwitch0	9216	128	9000	vmnic0
Client Host 2	vSwitch1	9216	128	9000	vmnic1
	vSwitch0	9216	128	9000	vmnic0
Client Host 3	vSwitch1	9216	128	9000	vmnic1
	vSwitch0	9216	128	9000	vmnic0
Client Host 4	vSwitch1	9216	128	9000	vmnic1
	vSwitch0	9216	128	9000	vmnic0

Client Host	Switch	Port Group	VLAN ID	Uplinks
Client Host 1	vSwitch0	Management Network	0	vmnic0
		VM Network	0	vmnic0
	vSwitch1	vmotion	0	vmnic1
Client Host 2	vSwitch0	Management Network	0	vmnic0
		VM Network	0	vmnic0
	vSwitch1	vmotion	0	vmnic1
Client Host 3	vSwitch0	Management Network	0	vmnic0
		VM Network	0	vmnic0
	vSwitch1	vmotion	0	vmnic1
Client Host 4	vSwitch0	Management Network	0	vmnic0
		VM Network	0	vmnic0
	vSwitch1	vmotion	0	vmnic1

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

Client Host	Device	Port Group/DVPort	MTU	TCP/IP Stack	Services
Client Host 1	vmk0	Management Network	1500	Default	Management
	vmk1	vmotion	9000	Default	vMotion
Client Host 2	vmk0	Management Network	1500	Default	Management
	vmk1	vmotion	9000	Default	vMotion
Client Host 3	vmk0	Management Network	1500	Default	Management
	vmk1	vmotion	9000	Default	vMotion
Client Host 4	vmk0	Management Network	1500	Default	Management
	vmk1	vmotion	9000	Default	vMotion

Client Storage Notes

See Client Notes Section

Other Hardware

2x 1200W Redundant power supplies
Servers were air-cooled

Other Software

VMware ESXi 8.0 Update 3, Build 24022510

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
- All Standby VMs had CPU shares set to low (default normal)
- All DS35DB, NoSQLBench, and AuctionK VMs had CPU shares set to High (default normal)
- All DS35DB VM memory shares set to High (default normal)
- Added sched.mem.lpage.enable1GPage to True for all DS35DB VMs (default normal)
- All memory reserved for DS35DB VMs (default non-reserved)
- Memory was pinned for all DS35DB VMs.
- CD/DVD device was removed from all VMs except PrimeClient. (default present)
- 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 except Template, PrimeClient, and Client VMs (default enabled)

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.HostClientCEIPOptIn	2	2	0
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

- NUMA per Socket = 1 (Default Auto)
- APBDis = 1 (Default Auto)
- xGMI Link Width Control = Force (Default Unforce)
- xGMI Force Link Width = 2 (Default 1)
- xGMI Link Max Speed = 22 Gbps (Default Auto)

Networking Notes

- vSwitch0 configured for Management Network and vmotion
 - Connected to vmnic2
 - vSwitch0, vmk0, and vmnic2 set to MTU 9000 (default 1500)
- vSwitch1 configured for VM Network
 - Connected to vmnic3
 - vSwitch1 and vmnic3 set to MTU 9000 (default 1500)
 - All VMs connected to default portgroup VM Network

Storage Notes

- All client server OS installed on 64GB LUN PureStorage FA-X90R2 Array
- All SUT hosts OS installed on 32GB LUN PureStorage FA-X90R2 Array
- All FC ports regardless of model are running at 16Gbps
- FC LUN Folder configuration:
 - All LUNs are backed by the same NVMe disks present on the PureStorage FA-X90R2 Array
 - All DS35DB and AuctionWebEDB VMs were stored on a 2TB LUN associated with a corresponding tile number.
 - All NoSQLBench and AuctionWebDNosql VMs were stored on a 32TB LUN named Deploy
 - The template VM was stored on an 8TB LUN named infra_source.
 - All DS35WebA VMs were stored on an 8TB LUN named infra_source.
 - All AuctionWebF VMs were stored on an 8TB LUN named infra_source.
 - All other VMs were stored on a 2TB LUN associated with a corresponding tile number.
 - All VM infrastructure operations were on an 8TB LUN called infra_target for its destination.
- All FC LUNs were configured with:
 - Round Robin Path Policy (Default: Most Recently Used)
 - IO Operations Limit 1 (Default: 1000)

Server Management Notes

VMware vCenter Server Appliance 8.0 Update 3, Build 24022515 was hosted on the Client Cluster and automatically load balanced along with the other Client VMs through DRS.

Operating System Notes

SUT Host ESXi Image Profile: ESXi-8.0U3-24022510-standard

Software Notes

None

Client Notes

- vSphere DRS Enabled
- vSphere DRS Automation Level set to Fully Automated
- vSphere DRS Migration Threshold set to 1

Client Host ESXi Advanced Settings:

Advanced Setting	Host 1	Host 2	Host 3	Host 4	Default
UserVars.SuppressShellWarning	1	1	1	1	0

Client Host ESXi Module Options:

Module	Host 1	Host 2	Host 3	Host 4	Default
tcpip4	ipv6=1	ipv6=1	ipv6=1	ipv6=1	ipv6=1

Client Host ESXi Image Profile: (Updated) ESXi-8.0U3-24022510-standard

Other Notes

None

VMmark4.properties Settings

- TileDelay = 15 (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	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	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	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	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	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	Deploy	VM Network	17	12325
AuctionWebDNosql1	4	4	20480	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	Deploy	VM Network	17	12325

AuctionWebDNosql2	4	4	20480	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	Deploy	VM Network	17	12325
AuctionWebDNosql3	4	4	20480	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	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
AuctionWebEDB0	4	4	16384	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	db0	VM Network	17	12325
AuctionWebEDB1	4	4	16384	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	db1	VM Network	17	12325
AuctionWebEDB2	4	4	16384	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	db2	VM Network	17	12325
AuctionWebEDB3	4	4	16384	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	db3	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	infra_source	VM Network	17	12325
AuctionWebF1	2	2	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	infra_source	VM Network	17	12325
AuctionWebF2	2	2	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	infra_source	VM Network	17	12325
AuctionWebF3	2	2	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	infra_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	db0	VM Network	17	12325
DS35DB1	24	24	49152	TRUE	FALSE	Removed	0	Unlimited	high	49152	Unlimited	high	TRUE	TRUE	normal	db1	VM Network	17	12325
DS35DB2	24	24	49152	TRUE	FALSE	Removed	0	Unlimited	high	49152	Unlimited	high	TRUE	TRUE	normal	db2	VM Network	17	12325
DS35DB3	24	24	49152	TRUE	FALSE	Removed	0	Unlimited	high	49152	Unlimited	high	TRUE	TRUE	normal	db3	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	infra_source	VM Network	17	12325
DS35WebA1	6	6	512	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	infra_source	VM Network	17	12325
DS35WebA2	6	6	512	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	infra_source	VM Network	17	12325
DS35WebA3	6	6	512	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	infra_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	Deploy	VM Network	17	12325
NoSQLBenchA1	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	Deploy	VM Network	17	12325
NoSQLBenchA2	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	Deploy	VM Network	17	12325
NoSQLBenchA3	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	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
NoSQLBenchB0	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	Deploy	VM Network	17	12325
NoSQLBenchB1	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	Deploy	VM Network	17	12325
NoSQLBenchB2	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	Deploy	VM Network	17	12325
NoSQLBenchB3	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	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
NoSQLBenchC0	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	Deploy	VM Network	17	12325
NoSQLBenchC1	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	Deploy	VM Network	17	12325
NoSQLBenchC2	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	Deploy	VM Network	17	12325
NoSQLBenchC3	8	8	8192	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	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

SocialNetwork0	36	36	16384	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile0	VM Network	17	12325
SocialNetwork1	36	36	16384	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile1	VM Network	17	12325
SocialNetwork2	36	36	16384	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	tile2	VM Network	17	12325
SocialNetwork3	36	36	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
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-4.0.1-208	4	1	32768	TRUE	TRUE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	infra_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	TRUE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	Client	VM Network	17	12325
Client1	64	1	98304	TRUE	TRUE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	Client	VM Network	17	12325
Client2	64	1	98304	TRUE	TRUE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	Client	VM Network	17	12325
Client3	64	1	98304	TRUE	TRUE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	Client	VM Network	17	12325
PrimeClient	4	1	32768	TRUE	TRUE	Present	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	Client	VM Network, VM Network	17	12325
VCSA8.0U3-IA	8	1	30720	FALSE	TRUE	Present	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	Client	VM Network	10	12389

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