

VMmark[®] 4.0.1 Disclosure

Server Vendor & Model: Supermicro AS -2125HS-TNR
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 =
3.43 @ 4 Tiles

| | | |
|---|---|--|
| Number of Hosts: 2 | Uniform Hosts: yes | Total sockets/cores/threads in test: 4/384/768 |
| Tested By: Supermicro | Test Date: 09-27-2024 | SUT Availability Date: 07-05-2023 |
| 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 | 14146.64 | 9237.28 | 3174.30 | 2469.82 | 1893.22 | 53425.29 | 53426.35 | 53425.53 | 72.01 | 1.00 | |
| p1 | 14122.67 | 9252.44 | 3163.53 | 2312.85 | 1647.00 | 50806.07 | 50806.02 | 50806.10 | 72.00 | 1.00 | |
| p2 | 14140.72 | 9223.27 | 3154.95 | 2472.72 | 1885.38 | 47898.71 | 47899.02 | 47898.59 | 71.99 | 1.00 | |
| TILE_0_Ratios | WVAuctionVM | WVAuctionK8S | DVDStoreA | DVDStoreB | DVDStoreC | NoSQLBenchA | NoSQLBenchB | NoSQLBenchC | SocialNetwork | Standby | Geo.Mean |
| p0 | 1.01 | 1.00 | 1.09 | 1.15 | 1.24 | 0.95 | 0.95 | 0.95 | 1.00 | 1.00 | 1.03 |
| p1 | 1.01 | 1.01 | 1.09 | 1.08 | 1.08 | 0.90 | 0.90 | 0.90 | 1.00 | 1.00 | 0.99 |
| p2 | 1.01 | 1.00 | 1.09 | 1.15 | 1.23 | 0.85 | 0.85 | 0.85 | 1.00 | 1.00 | 0.99 |
| TILE_0_QoS | WVAuctionVM% | WVAuctionK8S% | DVDStoreA | DVDStoreB | DVDStoreC | NoSQLBenchA | NoSQLBenchB | NoSQLBenchC | | | |
| p0 | 0.64 0.07 | 0.32 0.00 | 268.53 | 262.93 | 278.83 | 0.64 | 0.64 | 0.64 | | | |
| p1 | 0.75 0.14 | 0.33 0.00 | 270.50 | 260.80 | 288.07 | 0.69 | 0.69 | 0.68 | | | |
| p2 | 0.72 0.05 | 0.33 0.00 | 274.89 | 262.42 | 285.52 | 0.72 | 0.71 | 0.71 | | | |
| TILE_1_Scores | WVAuctionVM | WVAuctionK8S | DVDStoreA | DVDStoreB | DVDStoreC | NoSQLBenchA | NoSQLBenchB | NoSQLBenchC | SocialNetwork | Standby | |
| p0 | 14108.61 | 9224.25 | 3097.93 | 2327.88 | 1758.28 | 56962.78 | 56966.30 | 56960.56 | 72.04 | 1.00 | |
| p1 | 14076.85 | 9247.31 | 3100.75 | 2313.93 | 1660.70 | 54741.15 | 54741.83 | 54741.27 | 72.00 | 1.00 | |
| p2 | 14102.69 | 9225.89 | 3087.07 | 2302.30 | 1715.42 | 51370.06 | 51370.81 | 51370.93 | 71.98 | 1.00 | |
| TILE_1_Ratios | WVAuctionVM | WVAuctionK8S | DVDStoreA | DVDStoreB | DVDStoreC | NoSQLBenchA | NoSQLBenchB | NoSQLBenchC | SocialNetwork | Standby | Geo.Mean |
| p0 | 1.01 | 1.00 | 1.07 | 1.08 | 1.15 | 1.01 | 1.01 | 1.01 | 1.00 | 1.00 | 1.04 |
| p1 | 1.01 | 1.01 | 1.07 | 1.08 | 1.09 | 0.97 | 0.97 | 0.97 | 1.00 | 1.00 | 1.02 |
| p2 | 1.01 | 1.00 | 1.06 | 1.07 | 1.12 | 0.91 | 0.91 | 0.91 | 1.00 | 1.00 | 1.00 |
| TILE_1_QoS | WVAuctionVM% | WVAuctionK8S% | DVDStoreA | DVDStoreB | DVDStoreC | NoSQLBenchA | NoSQLBenchB | NoSQLBenchC | | | |
| p0 | 0.54 0.05 | 0.36 0.00 | 303.75 | 309.38 | 329.09 | 0.59 | 0.59 | 0.59 | | | |

| | | | | | | | | | | | |
|----------------------|---------------------|----------------------|------------------|------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------|-----------------|
| p1 | 0.64 0.11 | 0.36 0.00 | 307.88 | 319.46 | 348.91 | 0.62 | 0.62 | 0.62 | | | |
| p2 | 0.61 0.10 | 0.38 0.00 | 318.37 | 324.37 | 372.17 | 0.65 | 0.65 | 0.65 | | | |
| TILE_2_Scores | WVAuctionVM | WVAuctionK8S | DVDStoreA | DVDStoreB | DVDStoreC | NoSQLBenchA | NoSQLBenchB | NoSQLBenchC | SocialNetwork | Standby | |
| p0 | 14111.26 | 9236.71 | 2978.47 | 2221.80 | 1650.47 | 53691.78 | 53705.55 | 53706.33 | 67.28 | 1.00 | |
| p1 | 14127.21 | 9303.10 | 2994.90 | 2239.40 | 1586.28 | 51568.54 | 51568.92 | 51568.69 | 66.27 | 1.00 | |
| p2 | 14122.48 | 9231.36 | 2971.75 | 2227.72 | 1641.70 | 48818.83 | 48819.01 | 48819.47 | 65.21 | 1.00 | |
| TILE_2_Ratios | WVAuctionVM | WVAuctionK8S | DVDStoreA | DVDStoreB | DVDStoreC | NoSQLBenchA | NoSQLBenchB | NoSQLBenchC | SocialNetwork | Standby | Geo.Mean |
| p0 | 1.01 | 1.00 | 1.03 | 1.03 | 1.08 | 0.95 | 0.95 | 0.95 | 0.93 | 1.00 | 0.99 |
| p1 | 1.01 | 1.01 | 1.03 | 1.04 | 1.04 | 0.91 | 0.91 | 0.91 | 0.92 | 1.00 | 0.98 |
| p2 | 1.01 | 1.00 | 1.02 | 1.04 | 1.07 | 0.86 | 0.86 | 0.86 | 0.91 | 1.00 | 0.96 |
| TILE_2_QoS | WVAuctionVM% | WVAuctionK8S% | DVDStoreA | DVDStoreB | DVDStoreC | NoSQLBenchA | NoSQLBenchB | NoSQLBenchC | | | |
| p0 | 0.57 0.05 | 0.44 0.00 | 376.82 | 392.23 | 437.41 | 0.62 | 0.63 | 0.63 | | | |
| p1 | 0.61 0.08 | 0.46 0.00 | 368.10 | 378.01 | 431.86 | 0.67 | 0.67 | 0.67 | | | |
| p2 | 0.59 0.07 | 0.50 0.00 | 382.80 | 386.70 | 450.82 | 0.69 | 0.69 | 0.69 | | | |
| TILE_3_Scores | WVAuctionVM | WVAuctionK8S | DVDStoreA | DVDStoreB | DVDStoreC | NoSQLBenchA | NoSQLBenchB | NoSQLBenchC | SocialNetwork | Standby | |
| p0 | 14095.14 | 9226.20 | 3143.55 | 2336.15 | 1778.28 | 57472.23 | 57470.24 | 57470.84 | 67.63 | 1.00 | |
| p1 | 14084.86 | 9239.34 | 3148.12 | 2327.75 | 1696.17 | 55101.76 | 55102.06 | 55100.96 | 66.12 | 1.00 | |
| p2 | 14082.55 | 9227.22 | 3120.60 | 2341.88 | 1759.12 | 51676.28 | 51676.89 | 51675.87 | 64.96 | 1.00 | |
| TILE_3_Ratios | WVAuctionVM | WVAuctionK8S | DVDStoreA | DVDStoreB | DVDStoreC | NoSQLBenchA | NoSQLBenchB | NoSQLBenchC | SocialNetwork | Standby | Geo.Mean |
| p0 | 1.01 | 1.00 | 1.08 | 1.09 | 1.16 | 1.02 | 1.02 | 1.02 | 0.94 | 1.00 | 1.04 |
| p1 | 1.01 | 1.00 | 1.09 | 1.08 | 1.11 | 0.98 | 0.98 | 0.98 | 0.92 | 1.00 | 1.01 |
| p2 | 1.01 | 1.00 | 1.08 | 1.09 | 1.15 | 0.91 | 0.91 | 0.91 | 0.90 | 1.00 | 0.99 |
| TILE_3_QoS | WVAuctionVM% | WVAuctionK8S% | DVDStoreA | DVDStoreB | DVDStoreC | NoSQLBenchA | NoSQLBenchB | NoSQLBenchC | | | |
| p0 | 0.56 0.07 | 0.37 0.00 | 280.95 | 304.89 | 312.29 | 0.58 | 0.59 | 0.59 | | | |
| p1 | 0.55 0.07 | 0.39 0.00 | 285.06 | 307.39 | 319.77 | 0.61 | 0.61 | 0.61 | | | |
| p2 | 0.59 0.06 | 0.37 0.00 | 292.51 | 299.41 | 327.75 | 0.64 | 0.65 | 0.64 | | | |
| p0_score: | 4.10 | | | | | | | | | | |
| p1_score: | 4.00 | | | | | | | | | | |
| p2_score: | 3.94 | | | | | | | | | | |

| | | | | | | | | |
|--|--|--|--|--|----------------|-----------------|-----------------|---------------|
| Infrastructure_Operations_Scores: | | | | | vMotion | SVMotion | XVMotion | Deploy |
| Completed_Ops_PerHour | | | | | 29.50 | 17.00 | 17.00 | 16.50 |
| Avg_Seconds_To_Complete | | | | | 1.15 | 2.44 | 3.32 | 171.94 |
| Failures | | | | | 0.00 | 0.00 | 0.00 | 0.00 |
| Ratio | | | | | 1.00 | 1.31 | 1.31 | 1.14 |
| Number_Of_Threads | | | | | 1 | 1 | 1 | 1 |

| Summary | Run_Is_Compliant | Median_Phase(p1) |
|---|------------------|------------------|
| Unreviewed_VMmark4_Applications_Score | 4.00 | |
| Unreviewed_VMmark4_Infrastructure_Score | 1.18 | |
| Unreviewed_VMmark4_Score | 3.43 @ 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 -2125HS-TNR | | | | | | |
| Processor Vendor and Model | AMD EPYC 9654 | | | | | | |
| Processor Speed (GHz) / Turbo Boost Speed (GHz) | 2.4 GHz / 3.7 GHz | | | | | | |
| Total Sockets/Total Cores/Total Threads | 2 Sockets / 192 Cores / 384 Threads | | | | | | |
| NUMA Nodes | 2 | | | | | | |
| BIOS Version | 1.6 | | | | | | |
| Memory Size (in GB, Number of DIMMs) | Physical Memory (BIOS): 768 GB Physical Memory (ESXi): 768 GB Number of DIMMs: 24 | | | | | | |
| | Location | Size | Speed | Max Speed | Rank | Type | Detail |
| | P1-DIMMA1 | 32 GB | 4800 MT/s | 5600 MT/s | 1 | DDR5 | Synchronous, Registered |
| | P1-DIMMB1 | 32 GB | 4800 MT/s | 5600 MT/s | 1 | DDR5 | Synchronous, Registered |
| | P1-DIMMC1 | 32 GB | 4800 MT/s | 5600 MT/s | 1 | DDR5 | Synchronous, Registered |
| | P1-DIMMD1 | 32 GB | 4800 MT/s | 5600 MT/s | 1 | DDR5 | Synchronous, Registered |

| | | | | | | | |
|---|--|--|--------------|---------------|-----------------|------|-------------------------|
| Memory Type and Speed | P1-DIMME1 | 32 GB | 4800 MT/s | 5600 MT/s | 1 | DDR5 | Synchronous, Registered |
| | P1-DIMMF1 | 32 GB | 4800 MT/s | 5600 MT/s | 1 | DDR5 | Synchronous, Registered |
| | P1-DIMMG1 | 32 GB | 4800 MT/s | 5600 MT/s | 1 | DDR5 | Synchronous, Registered |
| | P1-DIMMH1 | 32 GB | 4800 MT/s | 5600 MT/s | 1 | DDR5 | Synchronous, Registered |
| | P1-DIMMI1 | 32 GB | 4800 MT/s | 5600 MT/s | 1 | DDR5 | Synchronous, Registered |
| | P1-DIMMJ1 | 32 GB | 4800 MT/s | 5600 MT/s | 1 | DDR5 | Synchronous, Registered |
| | P1-DIMMK1 | 32 GB | 4800 MT/s | 5600 MT/s | 1 | DDR5 | Synchronous, Registered |
| | P1-DIMML1 | 32 GB | 4800 MT/s | 5600 MT/s | 1 | DDR5 | Synchronous, Registered |
| | P2-DIMMA1 | 32 GB | 4800 MT/s | 5600 MT/s | 1 | DDR5 | Synchronous, Registered |
| | P2-DIMMB1 | 32 GB | 4800 MT/s | 5600 MT/s | 1 | DDR5 | Synchronous, Registered |
| | P2-DIMMC1 | 32 GB | 4800 MT/s | 5600 MT/s | 1 | DDR5 | Synchronous, Registered |
| | P2-DIMMD1 | 32 GB | 4800 MT/s | 5600 MT/s | 1 | DDR5 | Synchronous, Registered |
| | P2-DIMME1 | 32 GB | 4800 MT/s | 5600 MT/s | 1 | DDR5 | Synchronous, Registered |
| | P2-DIMMF1 | 32 GB | 4800 MT/s | 5600 MT/s | 1 | DDR5 | Synchronous, Registered |
| | P2-DIMMG1 | 32 GB | 4800 MT/s | 5600 MT/s | 1 | DDR5 | Synchronous, Registered |
| | P2-DIMMH1 | 32 GB | 4800 MT/s | 5600 MT/s | 1 | DDR5 | Synchronous, Registered |
| | P2-DIMMI1 | 32 GB | 4800 MT/s | 5600 MT/s | 1 | DDR5 | Synchronous, Registered |
| | P2-DIMMJ1 | 32 GB | 4800 MT/s | 5600 MT/s | 1 | DDR5 | Synchronous, Registered |
| | P2-DIMMK1 | 32 GB | 4800 MT/s | 5600 MT/s | 1 | DDR5 | Synchronous, Registered |
| | P2-DIMML1 | 32 GB | 4800 MT/s | 5600 MT/s | 1 | 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 | 14.2.455.15 | | |
| | vmhba1 | Emulex LPe35002-M2 2-Port 32Gb Fibre Channel Adapter | 16 Gbps | lpfc | 14.2.455.15 | | |
| | vmhba64 | Emulex LPe35002-M2 2-Port 32Gb Fibre Channel Adapter | 16 Gbps | lpfc | 14.2.455.15 | | |
| | vmhba65 | Emulex LPe35002-M2 2-Port 32Gb Fibre Channel Adapter | 16 Gbps | lpfc | 14.2.455.15 | | |
| Other Hardware | 2x 1600W Redundant power supplies Servers were air-cooled | | | | | | |
| Other Software | None | | | | | | |
| BIOS Availability Date (MM-DD-YYYY) | 11-16-2023 | | | | | | |
| Hardware Availability Date | 06-13-2023 | | | | | | |

(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 |
|--------|---------|--------|------|--------------------|--------|--|
| vmnic0 | 25 Gbps | Full | 9000 | 8.0.0.1015 rx0 tx0 | sfvmk | Solarflare XtremeScale X2522 25G Network Adapter |
| vmnic1 | 25 Gbps | Full | 9000 | 8.0.0.1015 rx0 tx0 | sfvmk | Solarflare XtremeScale X2522 25G Network Adapter |

Number of Virtual Switches 1

| Switch | Ports | Configured Ports | MTU | Uplinks |
|----------|-------|------------------|------|----------------|
| vSwitch0 | 9216 | 128 | 9000 | vmnic0, vmnic1 |

| Switch | Port Group | VLAN ID | Uplinks |
|----------|--------------------|---------|----------------|
| vSwitch0 | Management Network | 0 | vmnic0, vmnic1 |
| vSwitch0 | VM Network | 0 | vmnic0, vmnic1 |
| vSwitch0 | vmotion | 0 | vmnic0, vmnic1 |

| Device | Port Group/DVPort | MTU | TCP/IP Stack | Services |
|--------|--------------------|------|--------------|------------|
| vmk0 | Management Network | 1500 | Default | Management |
| vmk1 | vmotion | 9000 | Default | vMotion |

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-65a84bcb-c20344f3-a07b-3ceceff5a006 | 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 |

Datstores

| | | | |
|---------------------|--------|--------|-------------------------|
| db7 | VMFS-6 | 2.2 TB | PURE Fibre Channel Disk |
| 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

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 |
|--|---------|---------------|--------|------------|----------|-----------------------|--|-----------------|
| 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 |
| 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 |
| 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 | 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 |

- Client Host 1: 2

| | |
|------------|--|
| NUMA Nodes | <ul style="list-style-type: none"> • Client Host 2: 2 • Client Host 3: 2 • Client Host 4: 2 |
|------------|--|

| | | | |
|-------------------------------------|----------------------|-------------|-------------|
| Memory Size (in GB) per Client Host | 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 |

| 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] |

| Client Host | Switch | Ports | Configured Ports | MTU | Uplinks |
|----------------------|-----------------|-------|------------------|------|---------|
| Client Host 1 | vSwitch0 | 9216 | 128 | 9000 | vmnic0 |
| | vSwitch1 | 9216 | 128 | 9000 | vmnic1 |
| Client Host 2 | vSwitch0 | 9216 | 128 | 9000 | vmnic0 |
| | vSwitch1 | 9216 | 128 | 9000 | vmnic1 |
| Client Host 3 | vSwitch0 | 9216 | 128 | 9000 | vmnic0 |
| | vSwitch1 | 9216 | 128 | 9000 | vmnic1 |
| Client Host 4 | vSwitch0 | 9216 | 128 | 9000 | vmnic0 |
| | vSwitch1 | 9216 | 128 | 9000 | vmnic1 |

| 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.
- CDROM removed from all VMs except PrimeClient.
- Logical CPU layout changed for all multi-CPU VMs to 1 socket with multiple cores except for PrimeClient (default single core per socket)

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

- TDP Control = 400 (default Auto)
- PPT Control = 400 (default Auto)
- NUMA per Socket = 1 (default Auto)

Networking Notes

- vSwitch0 configured for Management Network, VM Network, and vmotion networks
 - Connected to vmnic0 and vmnic1
 - vSwitch0, vmk1, and vmnic0 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: (Updated) 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 |
| | | | | | | | | | | | | | | | | | VM | | |

| | | | | | | | | | | | | | | | | | | | |
|-------------------|--------------|-------------------------|--------------------|------------------|----------------|---------------|----------------|------------------|-------------------|----------------|------------------|-------------------|----------------|--------------------|--------------------|------------------|-------------------|--------------------|----------------------|
| 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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