

VMmark® 4.0.1 Disclosure

Server Vendor & Model: Lenovo ThinkSystem SR860 V3
Storage Vendor & Model: 4 x Lenovo ThinkSystem SR665
1 x Lenovo ThinkSystem SR655
Hypervisor: VMware ESXi 8.0 Update 3, Build 24022510
Server Management Software: VMware vCenter Server 8.0 Update 3b, Build 24262322

**VMmark 4.0.1 Score =
3.54 @ 4 Tiles**

| | | |
|---|---|--|
| Number of Hosts: 2 | Uniform Hosts [yes/no]: yes | Total sockets/cores/threads in test: 8/480/960 |
| Tested By: Lenovo | Test Date: 10-28-2024 | SUT Availability Date: 08-13-2024 |
| 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 | 14170.59 | 9260.04 | 2854.57 | 2048.43 | 1525.92 | 67937.81 | 68062.40 | 68072.67 | 71.99 | 1.00 | |
| p1 | 14162.22 | 9248.45 | 2764.57 | 1987.85 | 1415.45 | 65849.56 | 65849.48 | 65849.32 | 71.97 | 1.00 | |
| p2 | 14167.10 | 9270.92 | 2731.60 | 2044.88 | 1509.88 | 64461.83 | 64461.92 | 64461.92 | 71.97 | 1.00 | |
| TILE_0_Ratios | WVAuctionVM | WVAuctionK8S | DVDStoreA | DVDStoreB | DVDStoreC | NoSQLBenchA | NoSQLBenchB | NoSQLBenchC | SocialNetwork | Standby | Geo.Mean |
| p0 | 1.01 | 1.01 | 0.98 | 0.95 | 1.00 | 1.20 | 1.20 | 1.20 | 1.00 | 1.00 | 1.06 |
| p1 | 1.01 | 1.01 | 0.95 | 0.92 | 0.93 | 1.17 | 1.17 | 1.17 | 1.00 | 1.00 | 1.03 |
| p2 | 1.01 | 1.01 | 0.94 | 0.95 | 0.99 | 1.14 | 1.14 | 1.14 | 1.00 | 1.00 | 1.03 |
| TILE_0_QoS | WVAuctionVM% | WVAuctionK8S% | DVDStoreA | DVDStoreB | DVDStoreC | NoSQLBenchA | NoSQLBenchB | NoSQLBenchC | | | |
| p0 | 0.26 0.00 | 0.59 0.05 | 458.98 | 540.41 | 588.93 | 0.50 | 0.50 | 0.50 | | | |
| p1 | 0.31 0.02 | 0.52 0.03 | 532.25 | 605.44 | 660.55 | 0.53 | 0.52 | 0.52 | | | |
| p2 | 0.30 0.00 | 0.58 0.03 | 540.62 | 539.68 | 612.88 | 0.54 | 0.53 | 0.53 | | | |
| TILE_1_Scores | WVAuctionVM | WVAuctionK8S | DVDStoreA | DVDStoreB | DVDStoreC | NoSQLBenchA | NoSQLBenchB | NoSQLBenchC | SocialNetwork | Standby | |
| p0 | 14194.20 | 9226.28 | 2845.10 | 2011.85 | 1500.00 | 66201.34 | 66170.71 | 66195.78 | 72.01 | 1.00 | |
| p1 | 14148.63 | 9245.79 | 2800.28 | 2012.15 | 1361.85 | 64018.31 | 64021.12 | 64018.84 | 71.96 | 1.00 | |
| p2 | 14142.57 | 9314.67 | 2753.43 | 2046.05 | 1528.12 | 62612.87 | 62614.30 | 62612.75 | 71.87 | 1.00 | |
| TILE_1_Ratios | WVAuctionVM | WVAuctionK8S | DVDStoreA | DVDStoreB | DVDStoreC | NoSQLBenchA | NoSQLBenchB | NoSQLBenchC | SocialNetwork | Standby | Geo.Mean |
| p0 | 1.01 | 1.00 | 0.98 | 0.94 | 0.98 | 1.17 | 1.17 | 1.17 | 1.00 | 1.00 | 1.04 |
| p1 | 1.01 | 1.00 | 0.97 | 0.94 | 0.89 | 1.13 | 1.13 | 1.13 | 1.00 | 1.00 | 1.02 |
| p2 | 1.01 | 1.01 | 0.95 | 0.95 | 1.00 | 1.11 | 1.11 | 1.11 | 1.00 | 1.00 | 1.03 |
| TILE_1_QoS | WVAuctionVM% | WVAuctionK8S% | DVDStoreA | DVDStoreB | DVDStoreC | NoSQLBenchA | NoSQLBenchB | NoSQLBenchC | | | |
| p0 | 0.31 0.00 | 0.57 0.02 | 467.18 | 570.80 | 621.05 | 0.52 | 0.52 | 0.52 | | | |

| | | | | | | | | | | | |
|----------------------|---------------------|----------------------|------------------|------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------|-----------------|
| p1 | 0.32 0.00 | 0.60 0.02 | 496.02 | 566.00 | 720.63 | 0.55 | 0.55 | 0.55 | | | |
| p2 | 0.33 0.00 | 0.59 0.03 | 523.45 | 540.99 | 589.27 | 0.56 | 0.55 | 0.55 | | | |
| TILE_2_Scores | WVAuctionVM | WVAuctionK8S | DVDStoreA | DVDStoreB | DVDStoreC | NoSQLBenchA | NoSQLBenchB | NoSQLBenchC | SocialNetwork | Standby | |
| p0 | 14165.27 | 9249.14 | 2880.05 | 2002.22 | 1531.03 | 67582.91 | 67581.82 | 67584.05 | 72.02 | 1.00 | |
| p1 | 14178.19 | 9260.99 | 2837.07 | 2021.72 | 1386.92 | 66456.18 | 66456.43 | 66456.17 | 71.90 | 1.00 | |
| p2 | 14153.78 | 9247.19 | 2657.57 | 1952.58 | 1411.83 | 65224.28 | 65224.50 | 65224.30 | 71.56 | 1.00 | |
| TILE_2_Ratios | WVAuctionVM | WVAuctionK8S | DVDStoreA | DVDStoreB | DVDStoreC | NoSQLBenchA | NoSQLBenchB | NoSQLBenchC | SocialNetwork | Standby | Geo.Mean |
| p0 | 1.01 | 1.01 | 0.99 | 0.93 | 1.00 | 1.20 | 1.20 | 1.20 | 1.00 | 1.00 | 1.05 |
| p1 | 1.01 | 1.01 | 0.98 | 0.94 | 0.91 | 1.18 | 1.18 | 1.18 | 1.00 | 1.00 | 1.04 |
| p2 | 1.01 | 1.01 | 0.92 | 0.91 | 0.92 | 1.15 | 1.15 | 1.15 | 0.99 | 1.00 | 1.02 |
| TILE_2_QoS | WVAuctionVM% | WVAuctionK8S% | DVDStoreA | DVDStoreB | DVDStoreC | NoSQLBenchA | NoSQLBenchB | NoSQLBenchC | | | |
| p0 | 0.25 0.00 | 0.58 0.02 | 440.96 | 575.69 | 582.58 | 0.49 | 0.49 | 0.49 | | | |
| p1 | 0.26 0.00 | 0.56 0.03 | 475.11 | 564.10 | 695.02 | 0.51 | 0.51 | 0.51 | | | |
| p2 | 0.28 0.00 | 0.54 0.01 | 600.13 | 643.18 | 744.67 | 0.51 | 0.52 | 0.51 | | | |
| TILE_3_Scores | WVAuctionVM | WVAuctionK8S | DVDStoreA | DVDStoreB | DVDStoreC | NoSQLBenchA | NoSQLBenchB | NoSQLBenchC | SocialNetwork | Standby | |
| p0 | 14154.87 | 9276.37 | 2852.10 | 2092.30 | 1518.10 | 68491.75 | 68494.59 | 68495.49 | 72.01 | 1.00 | |
| p1 | 14182.75 | 9281.11 | 2839.57 | 2016.40 | 1469.47 | 67472.96 | 67473.03 | 67473.12 | 71.94 | 1.00 | |
| p2 | 14177.49 | 9244.05 | 2877.05 | 1790.83 | 1531.95 | 66351.67 | 66351.69 | 66351.74 | 71.66 | 1.00 | |
| TILE_3_Ratios | WVAuctionVM | WVAuctionK8S | DVDStoreA | DVDStoreB | DVDStoreC | NoSQLBenchA | NoSQLBenchB | NoSQLBenchC | SocialNetwork | Standby | Geo.Mean |
| p0 | 1.01 | 1.01 | 0.98 | 0.97 | 0.99 | 1.21 | 1.21 | 1.21 | 1.00 | 1.00 | 1.06 |
| p1 | 1.01 | 1.01 | 0.98 | 0.94 | 0.96 | 1.19 | 1.19 | 1.19 | 1.00 | 1.00 | 1.05 |
| p2 | 1.01 | 1.00 | 0.99 | 0.83 | 1.00 | 1.17 | 1.17 | 1.17 | 1.00 | 1.00 | 1.03 |
| TILE_3_QoS | WVAuctionVM% | WVAuctionK8S% | DVDStoreA | DVDStoreB | DVDStoreC | NoSQLBenchA | NoSQLBenchB | NoSQLBenchC | | | |
| p0 | 0.26 0.00 | 0.55 0.04 | 460.12 | 501.23 | 594.53 | 0.48 | 0.48 | 0.48 | | | |
| p1 | 0.27 0.00 | 0.59 0.02 | 467.05 | 571.72 | 578.59 | 0.50 | 0.50 | 0.50 | | | |
| p2 | 0.30 0.00 | 0.60 0.02 | 442.61 | 730.60 | 577.80 | 0.50 | 0.50 | 0.50 | | | |
| p0_score: | 4.22 | | | | | | | | | | |
| p1_score: | 4.14 | | | | | | | | | | |
| p2_score: | 4.11 | | | | | | | | | | |

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|--|--|--|--|--|--|----------------|--|-----------------|--|-----------------|--|---------------|--|
| Infrastructure_Operations_Scores: | | | | | | vMotion | | SVMotion | | XVMotion | | Deploy | |
| Completed_Ops_PerHour | | | | | | 29.50 | | 16.00 | | 16.00 | | 17.50 | |
| Avg_Seconds_To_Complete | | | | | | 1.05 | | 13.97 | | 12.34 | | 164.26 | |
| Failures | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | |
| Ratio | | | | | | 1.00 | | 1.23 | | 1.23 | | 1.21 | |
| Number_Of_Threads | | | | | | 1 | | 1 | | 1 | | 1 | |

| | | | | | | | | | | | |
|----------------|--|--|--|--|--|------------------|--|--|--|------------------|--|
| Summary | | | | | | Run_Is_Compliant | | | | Median_Phase(p1) | |
|----------------|--|--|--|--|--|------------------|--|--|--|------------------|--|

| | |
|--|----------------|
| Unreviewed_VMmark4_Applications_Score | 4.14 |
| Unreviewed_VMmark4_Infrastructure_Score | 1.16 |
| Unreviewed_VMmark4_Score | 3.54 @ 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 3b, Build 24262322 / 09-17-2024 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Supplemental Software | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Servers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Number of Servers in System Under Test (all subsequent fields in this section are per server) | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Server Manufacturer and Model | Lenovo ThinkSystem SR860 V3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Processor Vendor and Model | Intel Xeon Platinum 8490H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Processor Speed (GHz) / Turbo Boost Speed (GHz) | 1.9 GHz / 3.5GHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Sockets/Total Cores/Total Threads | 4 Sockets / 240 Cores / 480 Threads | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NUMA Nodes | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BIOS Version | 5.10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory Size (in GB, Number of DIMMs) | Physical Memory (BIOS): 8192GB Physical Memory (ESXi): 8192GB Number of DIMMs: 32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Location</th> <th>Size</th> <th>Speed</th> <th>Max Speed</th> <th>Rank</th> <th>Type</th> <th>Detail</th> </tr> </thead> <tbody> <tr> <td>P1-DIMM1</td> <td>256 GB</td> <td>4800 MHz</td> <td>4800 MHz</td> <td>8</td> <td>DDR5</td> <td>Synchronous, Registered</td> </tr> <tr> <td>P1-DIMM3</td> <td>256 GB</td> <td>4800 MHz</td> <td>4800 MHz</td> <td>8</td> <td>DDR5</td> <td>Synchronous, Registered</td> </tr> <tr> <td>P1-DIMM5</td> <td>256 GB</td> <td>4800 MHz</td> <td>4800 MHz</td> <td>8</td> <td>DDR5</td> <td>Synchronous, Registered</td> </tr> <tr> <td>P1-DIMM7</td> <td>256 GB</td> <td>4800 MHz</td> <td>4800 MHz</td> <td>8</td> <td>DDR5</td> <td>Synchronous, Registered</td> </tr> <tr> <td>P1-DIMM10</td> <td>256 GB</td> <td>4800 MHz</td> <td>4800 MHz</td> <td>8</td> <td>DDR5</td> <td>Synchronous, Registered</td> </tr> <tr> <td>P1-DIMM12</td> <td>256 GB</td> <td>4800 MHz</td> <td>4800 MHz</td> <td>8</td> <td>DDR5</td> <td>Synchronous, Registered</td> </tr> <tr> <td>P1-DIMM14</td> <td>256 GB</td> <td>4800 MHz</td> <td>4800 MHz</td> <td>8</td> <td>DDR5</td> <td>Synchronous, Registered</td> </tr> <tr> <td>P1-DIMM16</td> <td>256 GB</td> <td>4800 MHz</td> <td>4800 MHz</td> <td>8</td> <td>DDR5</td> <td>Synchronous, Registered</td> </tr> <tr> <td>P2-DIMM17</td> <td>256 GB</td> <td>4800 MHz</td> <td>4800 MHz</td> <td>8</td> <td>DDR5</td> <td>Synchronous, Registered</td> </tr> <tr> <td>P2-DIMM19</td> <td>256 GB</td> <td>4800 MHz</td> <td>4800 MHz</td> <td>8</td> <td>DDR5</td> <td>Synchronous, Registered</td> </tr> <tr> <td>P2-DIMM21</td> <td>256 GB</td> <td>4800 MHz</td> <td>4800 MHz</td> <td>8</td> <td>DDR5</td> <td>Synchronous, Registered</td> </tr> <tr> <td>P2-DIMM23</td> <td>256 GB</td> <td>4800 MHz</td> <td>4800 MHz</td> <td>8</td> <td>DDR5</td> <td>Synchronous, Registered</td> </tr> </tbody> </table> | | | | | | | Location | Size | Speed | Max Speed | Rank | Type | Detail | P1-DIMM1 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered | P1-DIMM3 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered | P1-DIMM5 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered | P1-DIMM7 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered | P1-DIMM10 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered | P1-DIMM12 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered | P1-DIMM14 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered | P1-DIMM16 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered | P2-DIMM17 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered | P2-DIMM19 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered | P2-DIMM21 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered | P2-DIMM23 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered |
| Location | Size | Speed | Max Speed | Rank | Type | Detail | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P1-DIMM1 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P1-DIMM3 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P1-DIMM5 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P1-DIMM7 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P1-DIMM10 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P1-DIMM12 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P1-DIMM14 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P1-DIMM16 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P2-DIMM17 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P2-DIMM19 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P2-DIMM21 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P2-DIMM23 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Memory Type and Speed

| | | | | | | |
|------------------|--------|----------|----------|---|------|-------------------------|
| P2-DIMM26 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered |
| P2-DIMM28 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered |
| P2-DIMM30 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered |
| P2-DIMM32 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered |
| P3-DIMM33 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered |
| P3-DIMM35 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered |
| P3-DIMM37 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered |
| P3-DIMM39 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered |
| P3-DIMM42 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered |
| P3-DIMM44 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered |
| P3-DIMM46 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered |
| P3-DIMM48 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered |
| P4-DIMM49 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered |
| P4-DIMM51 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered |
| P4-DIMM53 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered |
| P4-DIMM55 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered |
| P4-DIMM58 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered |
| P4-DIMM60 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered |
| P4-DIMM62 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered |
| P4-DIMM64 | 256 GB | 4800 MHz | 4800 MHz | 8 | DDR5 | Synchronous, Registered |

Number of SAS Devices

0

SAS Device Vendors and Models

None

Number of Virtual Host Bus Adapters

5

Virtual Host Bus Adapter Vendors and Models

| SUT1 | | | | |
|---------------|--|---------|-------|-------------|
| HBA | Model | Speed | Drive | Firmware |
| vmhba1 | Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter | 32 Gbps | lpfc | 14.4.317.10 |
| vmhba2 | Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter | 32 Gbps | lpfc | 14.4.317.10 |
| vmhba3 | Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter | 32 Gbps | lpfc | 14.4.317.10 |
| vmhba4 | Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter | 32 Gbps | lpfc | 14.4.317.10 |
| vmhba6 | Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter | 32 Gbps | lpfc | 14.4.317.10 |

| SUT2 | | | | |
|---------------|--|---------|-------|-------------|
| HBA | Model | Speed | Drive | Firmware |
| vmhba0 | Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter | 32 Gbps | lpfc | 14.4.317.10 |
| vmhba1 | Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter | 32 Gbps | lpfc | 14.4.317.10 |
| vmhba2 | Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter | 32 Gbps | lpfc | 14.4.317.10 |
| vmhba3 | Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter | 32 Gbps | lpfc | 14.4.317.10 |
| vmhba5 | Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter | 32 Gbps | lpfc | 14.4.317.10 |

Power Supply Quantity, Name/Part Number, Wattage, Firmware, and Type

4 x 2400W PSUs
PN: SP57B07050

| | |
|--|-------------------------------|
| (Voltage, AC/DC) | FW: 7.55 230 Vac / 240 Vdc |
| Cooling Type (Air Cooling, Closed Loop Cooling, Direct Liquid Cooling, or Other) | Air-cooled |
| Other Software | None |
| BIOS Availability Date (MM-DD-YYYY) | 08-13-2024 |
| Hardware Availability Date (MM-DD-YYYY) | 01-10-2023 |
| Software Availability Date (MM-DD-YYYY) | 06-25-2024 |

Network

| Number of Virtual Network Controllers | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--------|-------|------------------------------|--------|---|--------|-------------|--------|---------|------|------|------------------------------|--------|---|--------|---------|------|------|------------------------------|--------|---|--------|----------|------|------|------------------------------|--------|---|--------|----------|------|------|------------------------------|--------|---|
| Virtual Network Controllers, Speeds, MTUs, Firmware, Drivers, Vendors and Models | <table border="1"> <thead> <tr> <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>vmnic0</td> <td>25 Gbps</td> <td>Full</td> <td>9000</td> <td>230.0.157.0 /pkg 230.1.116.0</td> <td>bnxnet</td> <td>Broadcom 57414 10/25GbE SFP28 2-port OCP Ethernet Adapter</td> </tr> <tr> <td>vmnic1</td> <td>25 Gbps</td> <td>Full</td> <td>9000</td> <td>230.0.157.0 /pkg 230.1.116.0</td> <td>bnxnet</td> <td>Broadcom 57414 10/25GbE SFP28 2-port OCP Ethernet Adapter</td> </tr> <tr> <td>vmnic2</td> <td>100 Gbps</td> <td>Full</td> <td>9000</td> <td>230.0.156.0 /pkg 230.1.116.0</td> <td>bnxnet</td> <td>Broadcom 57508 100GbE QSFP56 2-port PCIe 4 Ethernet Adapter</td> </tr> <tr> <td>vmnic3</td> <td>100 Gbps</td> <td>Full</td> <td>9000</td> <td>230.0.156.0 /pkg 230.1.116.0</td> <td>bnxnet</td> <td>Broadcom 57508 100GbE QSFP56 2-port PCIe 4 Ethernet Adapter</td> </tr> </tbody> </table> | Device | Speed | Duplex | MTU | Firmware | Driver | Description | vmnic0 | 25 Gbps | Full | 9000 | 230.0.157.0 /pkg 230.1.116.0 | bnxnet | Broadcom 57414 10/25GbE SFP28 2-port OCP Ethernet Adapter | vmnic1 | 25 Gbps | Full | 9000 | 230.0.157.0 /pkg 230.1.116.0 | bnxnet | Broadcom 57414 10/25GbE SFP28 2-port OCP Ethernet Adapter | vmnic2 | 100 Gbps | Full | 9000 | 230.0.156.0 /pkg 230.1.116.0 | bnxnet | Broadcom 57508 100GbE QSFP56 2-port PCIe 4 Ethernet Adapter | vmnic3 | 100 Gbps | Full | 9000 | 230.0.156.0 /pkg 230.1.116.0 | bnxnet | Broadcom 57508 100GbE QSFP56 2-port PCIe 4 Ethernet Adapter |
| Device | Speed | Duplex | MTU | Firmware | Driver | Description | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| vmnic0 | 25 Gbps | Full | 9000 | 230.0.157.0 /pkg 230.1.116.0 | bnxnet | Broadcom 57414 10/25GbE SFP28 2-port OCP Ethernet Adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| vmnic1 | 25 Gbps | Full | 9000 | 230.0.157.0 /pkg 230.1.116.0 | bnxnet | Broadcom 57414 10/25GbE SFP28 2-port OCP Ethernet Adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| vmnic2 | 100 Gbps | Full | 9000 | 230.0.156.0 /pkg 230.1.116.0 | bnxnet | Broadcom 57508 100GbE QSFP56 2-port PCIe 4 Ethernet Adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| vmnic3 | 100 Gbps | Full | 9000 | 230.0.156.0 /pkg 230.1.116.0 | bnxnet | Broadcom 57508 100GbE QSFP56 2-port PCIe 4 Ethernet Adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Number of Virtual Switches | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|------------------|---------|------------------|-----|---------|----------|------|-----|------|--------|----------|------|-----|------|--------|----------|------|-----|------|--------|----------|------|-----|------|--------|--------|------------|---------|---------|----------|--------------------------------|---|--------|----------|----------|---|--------|----------|----------|---|--------|----------|----------|---|--------|
| Virtual Switches, Ports, Port Groups, MTUs, Uplinks | <table border="1"> <thead> <tr> <th>Switch</th> <th>Ports</th> <th>Configured Ports</th> <th>MTU</th> <th>Uplinks</th> </tr> </thead> <tbody> <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>vmnic2</td> </tr> <tr> <td>vSwitch2</td> <td>9216</td> <td>128</td> <td>9000</td> <td>vmnic1</td> </tr> <tr> <td>vSwitch3</td> <td>9216</td> <td>128</td> <td>9000</td> <td>vmnic3</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Switch</th> <th>Port Group</th> <th>VLAN ID</th> <th>Uplinks</th> </tr> </thead> <tbody> <tr> <td>vSwitch0</td> <td>Management Network, VM Network</td> <td>0</td> <td>vmnic0</td> </tr> <tr> <td>vSwitch1</td> <td>PortGrp1</td> <td>0</td> <td>vmnic2</td> </tr> <tr> <td>vSwitch2</td> <td>PortGrp2</td> <td>0</td> <td>vmnic1</td> </tr> <tr> <td>vSwitch3</td> <td>PortGrp3</td> <td>0</td> <td>vmnic3</td> </tr> </tbody> </table> | Switch | Ports | Configured Ports | MTU | Uplinks | vSwitch0 | 9216 | 128 | 9000 | vmnic0 | vSwitch1 | 9216 | 128 | 9000 | vmnic2 | vSwitch2 | 9216 | 128 | 9000 | vmnic1 | vSwitch3 | 9216 | 128 | 9000 | vmnic3 | Switch | Port Group | VLAN ID | Uplinks | vSwitch0 | Management Network, VM Network | 0 | vmnic0 | vSwitch1 | PortGrp1 | 0 | vmnic2 | vSwitch2 | PortGrp2 | 0 | vmnic1 | vSwitch3 | PortGrp3 | 0 | vmnic3 |
| Switch | Ports | Configured Ports | MTU | Uplinks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| vSwitch0 | 9216 | 128 | 9000 | vmnic0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| vSwitch1 | 9216 | 128 | 9000 | vmnic2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| vSwitch2 | 9216 | 128 | 9000 | vmnic1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| vSwitch3 | 9216 | 128 | 9000 | vmnic3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Switch | Port Group | VLAN ID | Uplinks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| vSwitch0 | Management Network, VM Network | 0 | vmnic0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| vSwitch1 | PortGrp1 | 0 | vmnic2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| vSwitch2 | PortGrp2 | 0 | vmnic1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| vSwitch3 | PortGrp3 | 0 | vmnic3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| VMkernel Network Adapters, Port Groups, MTU, TCP/IP Stacks, and Services | <table border="1"> <thead> <tr> <th>Device</th> <th>Port Group</th> <th>MTU</th> <th>TCP/IP Stack</th> <th>Services</th> </tr> </thead> <tbody> <tr> <td>vmk0</td> <td>Management Network</td> <td>9000</td> <td>Default</td> <td>Management, vMotion, Provisioning</td> </tr> </tbody> </table> | Device | Port Group | MTU | TCP/IP Stack | Services | vmk0 | Management Network | 9000 | Default | Management, vMotion, Provisioning |
|--|--|--------|--------------|-----------------------------------|--------------|----------|------|--------------------|------|---------|-----------------------------------|
| Device | Port Group | MTU | TCP/IP Stack | Services | | | | | | | |
| vmk0 | Management Network | 9000 | Default | Management, vMotion, Provisioning | | | | | | | |

| | |
|--|---|
| Physical Switch Vendors, Models and Speeds | Lenovo ThinkSystem NE2572 RackSwitch 48-port 25GbE/100GbE |
|--|---|

Primary Storage

| Storage Category | SCSI Target | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|------------|----------------------------|------|----------------|----------|--------|---------|----------------------------|--------|--------|---------|----------------------------|----------|--------|---------|----------------------------|----------|--------|---------|----------------------------|-----------|--------|---------|----------------------------|-----------|--------|---------|----------------------------|-----------|--------|---------|----------------------------|
| | <table border="1"> <thead> <tr> <th>Datastores</th> <th>Type</th> <th>Size</th> <th>Storage Device</th> </tr> </thead> <tbody> <tr> <td>Template</td> <td>VMFS-6</td> <td>3.84 TB</td> <td>LIO-ORG Fibre Channel Disk</td> </tr> <tr> <td>Deploy</td> <td>VMFS-6</td> <td>3.84 TB</td> <td>LIO-ORG Fibre Channel Disk</td> </tr> <tr> <td>SVmotion</td> <td>VMFS-6</td> <td>3.84 TB</td> <td>LIO-ORG Fibre Channel Disk</td> </tr> <tr> <td>XVmotion</td> <td>VMFS-6</td> <td>3.84 TB</td> <td>LIO-ORG Fibre Channel Disk</td> </tr> <tr> <td>SS_Tile0b</td> <td>VMFS-6</td> <td>3.84 TB</td> <td>LIO-ORG Fibre Channel Disk</td> </tr> <tr> <td>SS_Tile0c</td> <td>VMFS-6</td> <td>3.84 TB</td> <td>LIO-ORG Fibre Channel Disk</td> </tr> <tr> <td>SS_Tile0d</td> <td>VMFS-6</td> <td>3.84 TB</td> <td>LIO-ORG Fibre Channel Disk</td> </tr> </tbody> </table> | Datastores | Type | Size | Storage Device | Template | VMFS-6 | 3.84 TB | LIO-ORG Fibre Channel Disk | Deploy | VMFS-6 | 3.84 TB | LIO-ORG Fibre Channel Disk | SVmotion | VMFS-6 | 3.84 TB | LIO-ORG Fibre Channel Disk | XVmotion | VMFS-6 | 3.84 TB | LIO-ORG Fibre Channel Disk | SS_Tile0b | VMFS-6 | 3.84 TB | LIO-ORG Fibre Channel Disk | SS_Tile0c | VMFS-6 | 3.84 TB | LIO-ORG Fibre Channel Disk | SS_Tile0d | VMFS-6 | 3.84 TB | LIO-ORG Fibre Channel Disk |
| Datastores | Type | Size | Storage Device | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Template | VMFS-6 | 3.84 TB | LIO-ORG Fibre Channel Disk | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deploy | VMFS-6 | 3.84 TB | LIO-ORG Fibre Channel Disk | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SVmotion | VMFS-6 | 3.84 TB | LIO-ORG Fibre Channel Disk | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| XVmotion | VMFS-6 | 3.84 TB | LIO-ORG Fibre Channel Disk | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SS_Tile0b | VMFS-6 | 3.84 TB | LIO-ORG Fibre Channel Disk | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SS_Tile0c | VMFS-6 | 3.84 TB | LIO-ORG Fibre Channel Disk | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SS_Tile0d | VMFS-6 | 3.84 TB | LIO-ORG Fibre Channel Disk | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Datstores

| | | | |
|-----------|--------|---------|----------------------------|
| SS_Tile1a | VMFS-6 | 3.84 TB | LIO-ORG Fibre Channel Disk |
| SS_Tile1b | VMFS-6 | 3.84 TB | LIO-ORG Fibre Channel Disk |
| SS_Tile1c | VMFS-6 | 3.84 TB | LIO-ORG Fibre Channel Disk |
| SS_Tile1d | VMFS-6 | 3.84 TB | LIO-ORG Fibre Channel Disk |
| SS_Tile2a | VMFS-6 | 3.84 TB | LIO-ORG Fibre Channel Disk |
| SS_Tile2b | VMFS-6 | 3.84 TB | LIO-ORG Fibre Channel Disk |
| SS_Tile2c | VMFS-6 | 3.84 TB | LIO-ORG Fibre Channel Disk |
| SS_Tile2d | VMFS-6 | 3.84 TB | LIO-ORG Fibre Channel Disk |
| SS_Tile3a | VMFS-6 | 3.84 TB | LIO-ORG Fibre Channel Disk |
| SS_Tile3b | VMFS-6 | 3.84 TB | LIO-ORG Fibre Channel Disk |
| SS_Tile3c | VMFS-6 | 3.84 TB | LIO-ORG Fibre Channel Disk |
| SS_Tile3d | VMFS-6 | 3.84 TB | LIO-ORG Fibre Channel Disk |

Number of Storage Devices

20

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

| Storage Device | Size | Type | Vendor | Model | Revision | Path Selection Policy | Path Selection Policy Config | # Working Paths |
|-------------------------------|---------|---------------|---------|--|----------|-----------------------|--|-----------------|
| Local NVMe Disk (Boot Device) | 1.92 TB | Direct Access | NVMe | NVMe DC SSD [3DNAND, Sentinel Rock Controller] | 9CV10200 | FIXED | preferred=none | 1 |
| LIO-ORG | 3.84 TB | Direct Access | LIO-ORG | Template | 4.0 | VMW_PSP_MRU | Current Path=vmhba5:C0:T0:L2 (SUT1) Current Path=vmhba6:C0:T0:L2 (SUT2) | 1 |
| LIO-ORG | 3.84 TB | Direct Access | LIO-ORG | XVmotion | 4.0 | VMW_PSP_MRU | Current Path=vmhba5:C0:T1:L0 (SUT1) Current Path=vmhba6:C0:T1:L2 (SUT2) | 1 |
| LIO-ORG | 3.84 TB | Direct Access | LIO-ORG | Deploy | 4.0 | VMW_PSP_MRU | Current Path=vmhba5:C0:T1:L1 (SUT1) Current Path=vmhba6:C0:T0:L1 (SUT2) | 1 |
| LIO-ORG | 3.84 TB | Direct Access | LIO-ORG | SVmotion | 4.0 | VMW_PSP_MRU | Current Path=vmhba5:C0:T0:L0 (SUT1) Current Path=vmhba6:C0:T1:L0 (SUT2) | 1 |
| LIO-ORG | 3.84 TB | Direct Access | LIO-ORG | SS_Tile0a | 4.0 | VMW_PSP_MRU | Current Path=vmhba2:C0:T5:L1 (SUT1) Current Path=vmhba3:C0:T0:L1 (SUT2) | 1 |
| LIO-ORG | 3.84 TB | Direct Access | LIO-ORG | SS_Tile0b | 4.0 | VMW_PSP_MRU | Current Path=vmhba2:C0:T6:L0 (SUT1) Current Path=vmhba3:C0:T2:L0 (SUT2) | 1 |
| LIO-ORG | 3.84 TB | Direct Access | LIO-ORG | SS_Tile0c | 4.0 | VMW_PSP_MRU | Current Path=vmhba3:C0:T4:L1 (SUT1) Current Path=vmhba4:C0:T1:L1 (SUT2) | 1 |
| LIO-ORG | 3.84 TB | Direct Access | LIO-ORG | SS_Tile0d | 4.0 | VMW_PSP_MRU | Current Path=vmhba3:C0:T6:L0 (SUT1) Current Path=vmhba4:C0:T2:L0 (SUT2) | 1 |
| LIO-ORG | 3.84 TB | Direct Access | LIO-ORG | SS_Tile1a | 4.0 | VMW_PSP_MRU | Current Path=vmhba3:C0:T2:L0 (SUT1) Current Path=vmhba4:C0:T5:L0 (SUT2) | 1 |
| LIO-ORG | 3.84 TB | Direct Access | LIO-ORG | SS_Tile1b | 4.0 | VMW_PSP_MRU | Current Path=vmhba3:C0:T1:L0 (SUT1) Current Path=vmhba4:C0:T4:L0 (SUT2) | 1 |
| LIO-ORG | 3.84 TB | Direct Access | LIO-ORG | SS_Tile1c | 4.0 | VMW_PSP_MRU | Current Path=vmhba2:C0:T3:L0 (SUT1) Current Path=vmhba3:C0:T7:L0 (SUT2) | 1 |
| LIO-ORG | 3.84 TB | Direct Access | LIO-ORG | SS_Tile1d | 4.0 | VMW_PSP_MRU | Current Path=vmhba2:C0:T2:L0 (SUT1) Current Path=vmhba3:C0:T6:L0 (SUT2) | 1 |
| LIO-ORG | 3.84 TB | Direct Access | LIO-ORG | SS_Tile2a | 4.0 | VMW_PSP_MRU | Current Path=vmhba0:C0:T3:L0 (SUT1) Current Path=vmhba1:C0:T4:L0 (SUT2) | 1 |
| LIO-ORG | 3.84 TB | Direct Access | LIO-ORG | SS_Tile2b | 4.0 | VMW_PSP_MRU | Current Path=vmhba0:C0:T0:L0 (SUT1) Current Path=vmhba1:C0:T5:L0 (SUT2) | 1 |
| LIO-ORG | 3.84 TB | Direct Access | LIO-ORG | SS_Tile2c | 4.0 | VMW_PSP_MRU | Current Path=vmhba1:C0:T4:L3 (SUT1) Current Path=vmhba2:C0:T0:L3 (SUT2) | 1 |

| | | | | | | | | |
|----------------|---------|---------------|---------|-----------|-----|-------------|--|---|
| LIO-ORG | 3.84 TB | Direct Access | LIO-ORG | SS_Tile2d | 4.0 | VMW_PSP_MRU | Current Path=vmhba1:C0:T6:L0 (SUT1) Current Path=vmhba2:C0:T1:L0 (SUT2) | 1 |
| LIO-ORG | 3.84 TB | Direct Access | LIO-ORG | SS_Tile3a | 4.0 | VMW_PSP_MRU | Current Path=vmhba1:C0:T3:L0 (SUT1) Current Path=vmhba2:C0:T5:L0 (SUT2) | 1 |
| LIO-ORG | 3.84 TB | Direct Access | LIO-ORG | SS_Tile3b | 4.0 | VMW_PSP_MRU | Current Path=vmhba1:C0:T1:L2 (SUT1) Current Path=vmhba2:C0:T4:L2 (SUT2) | 1 |
| LIO-ORG | 3.84 TB | Direct Access | LIO-ORG | SS_Tile3c | 4.0 | VMW_PSP_MRU | Current Path=vmhba0:C0:T7:L0 (SUT1) Current Path=vmhba0:C0:T1:L0 (SUT2) | 1 |
| LIO-ORG | 3.84 TB | Direct Access | LIO-ORG | SS_Tile3d | 4.0 | VMW_PSP_MRU | Current Path=vmhba0:C0:T5:L0 (SUT1) Current Path=vmhba1:C0:T3:L0 (SUT2) | 1 |

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

Server Management

| | |
|--|----|
| VMware vCenter Server Number of vCPUs | 32 |
| VMware vCenter Server Virtual Memory (in GB) | 48 |

Clients

| Total Clients VMs (including Prime Client) | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|-------------|-------------|-------|---------|---------------|---|-----|-----|---------------|---|-----|-----|---------------|---|-----|-----|---------------|---|-----|-----|---------------|---|----|-----|--------------|----------|------------|-------------|
| Number of Client Hosts (all subsequent fields in this section per Client Host) | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| System Model(s) | <ul style="list-style-type: none"> Client Host 1: Lenovo ThinkSystem SR665 V3 Client Host 2: Lenovo ThinkSystem SR665 V3 Client Host 3: Lenovo ThinkSystem SR665 V3 Client Host 4: Lenovo ThinkSystem SR665 V3 Client Host 5: Lenovo ThinkSystem SR655 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Processor Vendor(s) and Model(s) | <ul style="list-style-type: none"> Client Host 1: AMD EPYC 9654 Client Host 2: AMD EPYC 9654 Client Host 3: AMD EPYC 9654 Client Host 4: AMD EPYC 9654 Client Host 5: AMD EPYC 7713 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Processor Speed(s) (GHz) | <ul style="list-style-type: none"> Client Host 1: 2.4 GHz Client Host 2: 2.4 GHz Client Host 3: 2.4 GHz Client Host 4: 2.4 GHz Client Host 5: 2.0 GHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Sockets/Total Cores/Total Threads | <table border="1" style="width: 100%; border-collapse: collapse;"> <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>192</td> <td>384</td> </tr> <tr> <td>Client Host 2</td> <td>2</td> <td>192</td> <td>384</td> </tr> <tr> <td>Client Host 3</td> <td>2</td> <td>192</td> <td>384</td> </tr> <tr> <td>Client Host 4</td> <td>2</td> <td>192</td> <td>384</td> </tr> <tr> <td>Client Host 5</td> <td>1</td> <td>64</td> <td>128</td> </tr> <tr> <td>Total</td> <td>9</td> <td>832</td> <td>1664</td> </tr> </tbody> </table> | Client Host | Sockets | Cores | Threads | Client Host 1 | 2 | 192 | 384 | Client Host 2 | 2 | 192 | 384 | Client Host 3 | 2 | 192 | 384 | Client Host 4 | 2 | 192 | 384 | Client Host 5 | 1 | 64 | 128 | Total | 9 | 832 | 1664 |
| Client Host | Sockets | Cores | Threads | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Client Host 1 | 2 | 192 | 384 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Client Host 2 | 2 | 192 | 384 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Client Host 3 | 2 | 192 | 384 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Client Host 4 | 2 | 192 | 384 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Client Host 5 | 1 | 64 | 128 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | 9 | 832 | 1664 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <ul style="list-style-type: none"> Client Host 1: 2 Client Host 2: 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | |
|------------|--|
| NUMA Nodes | <ul style="list-style-type: none"> Client Host 3: 2 Client Host 4: 2 Client Host 5: 1 |
|------------|--|

| 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>1536</td> <td>1535</td> </tr> <tr> <td>Client Host 2</td> <td>1536</td> <td>1535</td> </tr> <tr> <td>Client Host 3</td> <td>1536</td> <td>1535</td> </tr> <tr> <td>Client Host 4</td> <td>1536</td> <td>1535</td> </tr> <tr> <td>Client Host 5</td> <td>256</td> <td>255</td> </tr> </tbody> </table> | Client Host | BIOS | ESXi | Client Host 1 | 1536 | 1535 | Client Host 2 | 1536 | 1535 | Client Host 3 | 1536 | 1535 | Client Host 4 | 1536 | 1535 | Client Host 5 | 256 | 255 |
|-------------------------------------|---|-------------|------|------|---------------|------|------|---------------|------|------|---------------|------|------|---------------|------|------|---------------|-----|-----|
| Client Host | BIOS | ESXi | | | | | | | | | | | | | | | | | |
| Client Host 1 | 1536 | 1535 | | | | | | | | | | | | | | | | | |
| Client Host 2 | 1536 | 1535 | | | | | | | | | | | | | | | | | |
| Client Host 3 | 1536 | 1535 | | | | | | | | | | | | | | | | | |
| Client Host 4 | 1536 | 1535 | | | | | | | | | | | | | | | | | |
| Client Host 5 | 256 | 255 | | | | | | | | | | | | | | | | | |

| Virtual Network Controllers, Speeds, MTU, 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>Client Host 1</td> <td>vmnic0</td> <td>25 Gbps</td> <td>Full</td> <td>9000</td> <td>230.0.157.0 /pkg 230.1.116.0</td> <td>bnxnet</td> <td>Broadcom 57414 10/25Gb 2-Port SFP28 PCIe Ethernet Adapter</td> </tr> <tr> <td>Client Host 2</td> <td>vmnic0</td> <td>25 Gbps</td> <td>Full</td> <td>9000</td> <td>222.0.153.0 /pkg 222.1.68.0</td> <td>bnxnet</td> <td>Broadcom 57414 10/25Gb 2-Port SFP28 PCIe Ethernet Adapter</td> </tr> <tr> <td>Client Host 3</td> <td>vmnic2</td> <td>25 Gbps</td> <td>Full</td> <td>9000</td> <td>230.0.157.0 /pkg 222.1.73.0</td> <td>bnxnet</td> <td>Broadcom 57414 10/25Gb 2-Port SFP28 PCIe Ethernet Adapter</td> </tr> <tr> <td>Client Host 4</td> <td>vmnic0</td> <td>25 Gbps</td> <td>Full</td> <td>9000</td> <td>230.0.157.0 /pkg 230.1.116.0</td> <td>bnxnet</td> <td>Broadcom 57414 10/25Gb 2-Port SFP28 PCIe Ethernet Adapter</td> </tr> <tr> <td>Client Host 5</td> <td>vmnic0</td> <td>25 Gbps</td> <td>Full</td> <td>9000</td> <td>26.36.1010</td> <td>nmlx5_core</td> <td>Mellanox CX-6 Lx 10/25GbE SFP28 2-port OCP Ethernet Adapter</td> </tr> </tbody> </table> | Client Host | Device | Speed | Duplex | MTU | Firmware | Driver | Description | Client Host 1 | vmnic0 | 25 Gbps | Full | 9000 | 230.0.157.0 /pkg 230.1.116.0 | bnxnet | Broadcom 57414 10/25Gb 2-Port SFP28 PCIe Ethernet Adapter | Client Host 2 | vmnic0 | 25 Gbps | Full | 9000 | 222.0.153.0 /pkg 222.1.68.0 | bnxnet | Broadcom 57414 10/25Gb 2-Port SFP28 PCIe Ethernet Adapter | Client Host 3 | vmnic2 | 25 Gbps | Full | 9000 | 230.0.157.0 /pkg 222.1.73.0 | bnxnet | Broadcom 57414 10/25Gb 2-Port SFP28 PCIe Ethernet Adapter | Client Host 4 | vmnic0 | 25 Gbps | Full | 9000 | 230.0.157.0 /pkg 230.1.116.0 | bnxnet | Broadcom 57414 10/25Gb 2-Port SFP28 PCIe Ethernet Adapter | Client Host 5 | vmnic0 | 25 Gbps | Full | 9000 | 26.36.1010 | nmlx5_core | Mellanox CX-6 Lx 10/25GbE SFP28 2-port OCP Ethernet Adapter |
|--|--|-------------|--------|-------|------------------------------|------------|---|--------|-------------|---------------|--------|---------|------|------|------------------------------|--------|---|---------------|--------|---------|------|------|-----------------------------|--------|---|---------------|--------|---------|------|------|-----------------------------|--------|---|---------------|--------|---------|------|------|------------------------------|--------|---|---------------|--------|---------|------|------|------------|------------|---|
| Client Host | Device | Speed | Duplex | MTU | Firmware | Driver | Description | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Client Host 1 | vmnic0 | 25 Gbps | Full | 9000 | 230.0.157.0 /pkg 230.1.116.0 | bnxnet | Broadcom 57414 10/25Gb 2-Port SFP28 PCIe Ethernet Adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Client Host 2 | vmnic0 | 25 Gbps | Full | 9000 | 222.0.153.0 /pkg 222.1.68.0 | bnxnet | Broadcom 57414 10/25Gb 2-Port SFP28 PCIe Ethernet Adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Client Host 3 | vmnic2 | 25 Gbps | Full | 9000 | 230.0.157.0 /pkg 222.1.73.0 | bnxnet | Broadcom 57414 10/25Gb 2-Port SFP28 PCIe Ethernet Adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Client Host 4 | vmnic0 | 25 Gbps | Full | 9000 | 230.0.157.0 /pkg 230.1.116.0 | bnxnet | Broadcom 57414 10/25Gb 2-Port SFP28 PCIe Ethernet Adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Client Host 5 | vmnic0 | 25 Gbps | Full | 9000 | 26.36.1010 | nmlx5_core | Mellanox CX-6 Lx 10/25GbE SFP28 2-port OCP Ethernet Adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Virtual Switches, Ports Port Groups, MTUs, and Uplinks | <table border="1"> <thead> <tr> <th>Client Host</th> <th>Switch</th> <th>Ports</th> <th>Configured Ports</th> <th>MTU</th> <th>Uplinks</th> </tr> </thead> <tbody> <tr> <td>Client Host 1</td> <td>vSwitch0</td> <td>9216</td> <td>128</td> <td>9000</td> <td>vmnic0</td> </tr> <tr> <td>Client Host 2</td> <td>vSwitch0</td> <td>9216</td> <td>128</td> <td>9000</td> <td>vmnic0</td> </tr> <tr> <td>Client Host 3</td> <td>vSwitch0</td> <td>9216</td> <td>128</td> <td>9000</td> <td>vmnic0</td> </tr> <tr> <td>Client Host 4</td> <td>vSwitch0</td> <td>9216</td> <td>128</td> <td>9000</td> <td>vmnic0</td> </tr> <tr> <td rowspan="2">Client Host 5</td> <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> </tbody> </table> <table border="1"> <thead> <tr> <th>Client Host</th> <th>Switch</th> <th>Port Group</th> <th>VLAN ID</th> <th>Uplinks</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Client Host 1</td> <td>vSwitch0</td> <td>Management Network</td> <td>0</td> <td>vmnic0</td> </tr> <tr> <td>vSwitch0</td> <td>VM Network</td> <td>0</td> <td>vmnic0</td> </tr> <tr> <td rowspan="2">Client Host 2</td> <td>vSwitch0</td> <td>Management Network</td> <td>0</td> <td>vmnic0</td> </tr> <tr> <td>vSwitch0</td> <td>VM Network</td> <td>0</td> <td>vmnic0</td> </tr> <tr> <td rowspan="2">Client Host 3</td> <td>vSwitch0</td> <td>Management Network</td> <td>0</td> <td>vmnic2</td> </tr> <tr> <td>vSwitch0</td> <td>VM Network</td> <td>0</td> <td>vmnic2</td> </tr> <tr> <td rowspan="2">Client Host 4</td> <td>vSwitch0</td> <td>Management Network</td> <td>0</td> <td>vmnic0</td> </tr> <tr> <td>vSwitch0</td> <td>VM Network</td> <td>0</td> <td>vmnic0</td> </tr> <tr> <td rowspan="2">Client Host 5</td> <td>vSwitch0</td> <td>Management Network</td> <td>0</td> <td>vmnic0</td> </tr> <tr> <td>vSwitch0</td> <td>Primeclient Network</td> <td>0</td> <td>vmnic0</td> </tr> <tr> <td></td> <td>vSwitch1</td> <td>VM Network</td> <td>0</td> <td>vmnic1</td> </tr> </tbody> </table> | Client Host | Switch | Ports | Configured Ports | MTU | Uplinks | Client Host 1 | vSwitch0 | 9216 | 128 | 9000 | vmnic0 | Client Host 2 | vSwitch0 | 9216 | 128 | 9000 | vmnic0 | Client Host 3 | vSwitch0 | 9216 | 128 | 9000 | vmnic0 | Client Host 4 | vSwitch0 | 9216 | 128 | 9000 | vmnic0 | Client Host 5 | 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 | vSwitch0 | VM Network | 0 | vmnic0 | Client Host 2 | vSwitch0 | Management Network | 0 | vmnic0 | vSwitch0 | VM Network | 0 | vmnic0 | Client Host 3 | vSwitch0 | Management Network | 0 | vmnic2 | vSwitch0 | VM Network | 0 | vmnic2 | Client Host 4 | vSwitch0 | Management Network | 0 | vmnic0 | vSwitch0 | VM Network | 0 | vmnic0 | Client Host 5 | vSwitch0 | Management Network | 0 | vmnic0 | vSwitch0 | Primeclient Network | 0 | vmnic0 | | vSwitch1 | VM Network | 0 | vmnic1 |
|--|--|---------------------|------------------|---------|------------------|-----|---------|---------------|----------|------|-----|------|--------|---------------|----------|------|-----|------|--------|---------------|----------|------|-----|------|--------|---------------|----------|------|-----|------|--------|---------------|----------|------|-----|------|--------|----------|------|-----|------|--------|-------------|--------|------------|---------|---------|---------------|----------|--------------------|---|--------|----------|------------|---|--------|---------------|----------|--------------------|---|--------|----------|------------|---|--------|---------------|----------|--------------------|---|--------|----------|------------|---|--------|---------------|----------|--------------------|---|--------|----------|------------|---|--------|---------------|----------|--------------------|---|--------|----------|---------------------|---|--------|--|----------|------------|---|--------|
| Client Host | Switch | Ports | Configured Ports | MTU | Uplinks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Client Host 1 | vSwitch0 | 9216 | 128 | 9000 | vmnic0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Client Host 2 | vSwitch0 | 9216 | 128 | 9000 | vmnic0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Client Host 3 | vSwitch0 | 9216 | 128 | 9000 | vmnic0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Client Host 4 | vSwitch0 | 9216 | 128 | 9000 | vmnic0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Client Host 5 | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | vSwitch0 | VM Network | 0 | vmnic0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Client Host 2 | vSwitch0 | Management Network | 0 | vmnic0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | vSwitch0 | VM Network | 0 | vmnic0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Client Host 3 | vSwitch0 | Management Network | 0 | vmnic2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | vSwitch0 | VM Network | 0 | vmnic2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Client Host 4 | vSwitch0 | Management Network | 0 | vmnic0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | vSwitch0 | VM Network | 0 | vmnic0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Client Host 5 | vSwitch0 | Management Network | 0 | vmnic0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | vSwitch0 | Primeclient Network | 0 | vmnic0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | vSwitch1 | VM Network | 0 | vmnic1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Virtual Client Networking Notes | See details in Client Notes |
|---------------------------------|-----------------------------|

| VMKernel Network Adapters, Port Groups, MTUs, TCP/IP Stacks, and Services | <table border="1"> <thead> <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> </thead> <tbody> <tr> <td>Client Host 1</td> <td>vmk0</td> <td>Management Network</td> <td>9000</td> <td>Default</td> <td>Management, vmotion</td> </tr> <tr> <td>Client Host 2</td> <td>vmk0</td> <td>Management Network</td> <td>9000</td> <td>Default</td> <td>Management, vmotion</td> </tr> <tr> <td>Client Host 3</td> <td>vmk0</td> <td>Management Network</td> <td>9000</td> <td>Default</td> <td>Management, vmotion</td> </tr> <tr> <td>Client Host 4</td> <td>vmk0</td> <td>Management Network</td> <td>9000</td> <td>Default</td> <td>Management, vmotion</td> </tr> <tr> <td>Client Host 5</td> <td>vmk0</td> <td>Management Network</td> <td>9000</td> <td>Default</td> <td>Management, vmotion</td> </tr> </tbody> </table> | Client Host | Device | Port Group/DVPort | MTU | TCP/IP Stack | Services | Client Host 1 | vmk0 | Management Network | 9000 | Default | Management, vmotion | Client Host 2 | vmk0 | Management Network | 9000 | Default | Management, vmotion | Client Host 3 | vmk0 | Management Network | 9000 | Default | Management, vmotion | Client Host 4 | vmk0 | Management Network | 9000 | Default | Management, vmotion | Client Host 5 | vmk0 | Management Network | 9000 | Default | Management, vmotion |
|---|---|--------------------|--------|-------------------|---------------------|--------------|----------|---------------|------|--------------------|------|---------|---------------------|---------------|------|--------------------|------|---------|---------------------|---------------|------|--------------------|------|---------|---------------------|---------------|------|--------------------|------|---------|---------------------|---------------|------|--------------------|------|---------|---------------------|
| Client Host | Device | Port Group/DVPort | MTU | TCP/IP Stack | Services | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Client Host 1 | vmk0 | Management Network | 9000 | Default | Management, vmotion | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Client Host 2 | vmk0 | Management Network | 9000 | Default | Management, vmotion | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Client Host 3 | vmk0 | Management Network | 9000 | Default | Management, vmotion | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Client Host 4 | vmk0 | Management Network | 9000 | Default | Management, vmotion | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Client Host 5 | vmk0 | Management Network | 9000 | Default | Management, vmotion | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Client Storage Notes | See details in Client Notes |
| Other Hardware | See details in Client Notes |
| Other Software | See details in Client Notes |

Notes for Workload

Template deployed with disk type: Thick Provision Lazy Zeroed

Virtualization Software Notes

- vSphere DRS Enabled
- vSphere DRS Automation Level set to Fully Automated
- vSphere DRS Migration Threshold Level set to 2
- Logging disabled for all VMs (default: Enabled)
- CD/DVD device was removed from all VMs (default: Present)
- VM scoreboard disabled for all VMs (default: Enabled)
- PrimeClient's third virtual disk configured to be 750GB (default no third virtual disk)
- Client VMs vCPU set to 96 (default 64)
- Logical CPU configuration changed 48 core per socket for all Client VMs (default 1)
- Logical CPU configuration changed for all multi-CPU VMs (except Client, PrimeClient, Template, AuctionKA, AuctionKB, AuctionKC and AuctionKD) to 1 socket with multiple cores (default: Single core per socket)
- CPU shares set to low for all Standby VMs (default: normal)
- CPU shares set to high for all DS35DB VMs (default normal)
- Memory reserved for all DS35DB VMs (default: non-reserved)
- sched.mem.pin = "TRUE" for all DS35DB (default: FALSE)
- sched.mem.lpage.enable1GPage = "TRUE" for all DS35DB VMs (default: FALSE)

SUT Host ESXi Advanced Settings:

| Advanced Setting | Host 1 | Host 2 | Default |
|-----------------------------------|--------|--------|---------|
| Cpu.CreditAgePeriod | 1000 | 1000 | 3000 |
| Cpu.HTWholeCoreThreshold | 0 | 0 | 800 |
| DataMover.HardwareAcceleratedInit | 0 | 0 | 1 |
| DataMover.HardwareAcceleratedMove | 0 | 0 | 1 |
| Disk.IdleCredit | 64 | 64 | 32 |
| Disk.ReqCallThreshold | 1 | 1 | 8 |
| Mem.CtlMaxPercent | 0 | 0 | 65 |
| Mem.ShareScanGHz | 0 | 0 | 4 |
| Numa.LargeInterleave | 0 | 0 | 1 |
| Numa.LTermFairnessInterval | 0 | 0 | 5 |
| Numa.MigThreshold | 0 | 0 | 2 |
| Numa.MonMigEnable | 0 | 0 | 1 |
| Numa.PageMigEnable | 0 | 0 | 1 |
| Numa.PreferHT | 1 | 1 | 0 |
| Numa.RebalancePeriod | 60000 | 60000 | 2000 |

| | | | |
|--|------------------|------------------|----------|
| Numa.SwapLoadEnable | 0 | 0 | 1 |
| Numa.SwapLocalityEnable | 0 | 0 | 1 |
| Power.CpuPolicy | High Performance | High Performance | Balanced |
| UserVars.HostClientCEIPOptIn | 2 | 2 | 0 |
| UserVars.HostClientSessionTimeout | 0 | 0 | 900 |
| UserVars.SuppressShellWarning | 1 | 1 | 0 |

SUT Host ESXi Modules Options:

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

Server Notes

Server BIOS Settings:

- Operating Mode set to Maximum Performance, then Custom Mode (default Efficiency - Favor Performance)
- Adjacent Cache Prefetcher set to Disabled (default Enabled)
- DCU Streamer Prefetcher set to Disabled (default Enabled)
- DCU IP Prefetcher set to Disabled (default Enabled)
- OSB Disabled (default Enabled)
- OSB Remote Rd Disabled (default Enabled)
- OSB Local Rd Disabled (default Enabled)
- OSB Local RdCur Disabled (default Enabled)
- Gate OSB IODC Allocation Disabled (default Enabled)
- Stale AtoS set to Enable (default Auto)
- Monitor/MWAIT Enabled (default Disabled)
- LLC dead line allocation set to Disable (default Enable)
- PCIe Power Brake Disabled (default Proactive)
- Uncore Frequency Scaling Disabled (default Enabled)
- Memory Patrol Scrub set to Disabled (default Enabled)
- Fan speed set to maximum (default normal)
- SNC set to 4 (default Disabled)

Networking Notes

vSwitch Configuration

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

SUT Hosts:

- vSwitch0 configuration:
 - Uplink: vmnic0 (25Gbps)
 - Usage:
 - vmk0 for Management, vMotion, provisioning
 - "VM Network" port group for AuctionWebF

- vSwitch1 configuration:
 - Uplink: vmnic2 (100Gbps)
 - Usage: "PortGrp1" port group for all AuctionKA, AuctionKB, AuctionKC, AuctionKD, AuctionWebA, AuctionWebEDB
- vSwitch2 configuration:
 - Uplink: vmnic1 (25Gbps)
 - Usage: "PortGrp2" port group for all AuctionAppA, AuctionAppB, AuctionAppC, DS35DB, DS35WebA,DS35WebB, DS35WebC, NoSQLBench, Standby
- vSwitch3 configuration:
 - Uplink: vmnic3 (100Gbps)
 - Usage: "PortGrp3" port group for all AuctionWebB, AuctionWebC, AuctionDNosql, SocialNetwork

Client Hosts 1-4:

- vSwitch0 configuration:
 - Uplink: vmnic0 (25Gbps) on Client 1, 2, 4
 - Uplink: vmnic2 (25Gbps) on Client 3
 - Usage:
 - vmk0 for Management and vMotion
 - "VM Network" port group for Client VMs

Client Host 5:

- vSwitch0 configuration:
 - Uplink: vmnic0 (25Gbps)
 - Usage:
 - vmk0 for Management and vMotion
 - "Primeclient" port group for PrimeClient VM
- vSwitch1 configuration:
 - Uplink: vmnic1 (25Gbps)
 - Usage:
 - "VM Network" port group for vCenter Server VM

Storage Notes

- Client host 1-4 OS installed on 1 x Lenovo ThinkSystem 2.5" S4520 960GB Read Intensive SATA 6Gb HS SSD
- Client Host 5 OS installed on
 - 1 x Lenovo ThinkSystem RAID 940-16i 8GB Flash PCIe Gen4 12Gb Adapter)
 - 1 x Lenovo ThinkSystem 2.5" 480GB Mixed Use SATA 6Gb HS SSD
- All SUT hosts OS installed on 1 x Lenovo ThinkSystem P5520 1.92TB Read Intensive NVMe SSD

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

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

| Hardware | Processor | Memory | FC HBA | OS Storage System (not exported as FC Target LUN) | Workload Storage | Tile |
|--------------------------|------------------------------------|--|--|--|--|------|
| Lenovo ThinkSystem SR665 | 2 x AMD EPYC 7773X 64-Core 2.2 GHz | 2TB RAM (32 x 64GB DDR4-3200MHz RDIMM) | 2 x Lenovo ThinkSystem Qlogic QLE2772 2-port 32GB HBA used as FC target controller | 1 x Lenovo ThinkSystem 2.5" S4520 960GB Read Intensive SATA 6Gb HS SSD | 4 x Lenovo ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD | 0 |

| | | | | | | |
|--------------------------|------------------------------------|--|--|--|--|-----------------|
| Lenovo ThinkSystem SR665 | 2 x AMD EPYC 7763 64-Core 2.45 GHz | 512GB RAM (16 x 32GB DDR4-3200MHz RDIMM) | 2 x Lenovo ThinkSystem Qlogic QLE2772 2-port 32GB HBA used as FC target controller | 1 x Lenovo ThinkSystem 2.5" S4520 960GB Read Intensive SATA 6Gb HS SSD | 4 x Lenovo ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD | 1 |
| Lenovo ThinkSystem SR665 | 2 x AMD EPYC 7763 64-Core 2.45 GHz | 512GB RAM (16 x 32GB DDR4-3200MHz RDIMM) | 2 x Lenovo ThinkSystem Qlogic QLE2772 2-port 32GB HBA used as FC target controller | 1 x Lenovo ThinkSystem 2.5" S4520 960GB Read Intensive SATA 6Gb HS SSD | 4 x Lenovo ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD | 2 |
| Lenovo ThinkSystem SR665 | 2 x AMD EPYC 7763 64-Core 2.45 GHz | 2TB RAM (32 x 64GB DDR4-3200MHz RDIMM) | 2 x Lenovo ThinkSystem Qlogic QLE2772 2-port 32GB HBA used as FC target controller | 1 x Lenovo ThinkSystem 2.5" S4520 960GB Read Intensive SATA 6Gb HS SSD | 4 x Lenovo ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD | 3 |
| Lenovo ThinkSystem SR655 | 2 x AMD EPYC 72F3 8-Core 3.7 GHz | 1TB RAM (16 x 64GB DDR4-3200MHz RDIMM) | 2 x Lenovo ThinkSystem Qlogic QLE2772 2-port 32GB HBA used as FC target controller | 1 x Lenovo ThinkSystem 2.5" S4520 960GB Read Intensive SATA 6Gb HS SSD | 4 x Lenovo ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD | Infrastrure OPs |

- Software Details:

- Operating System: SLES15 SP5, Linux 5.14.21-150500.53-default
- Fibre Channel Target SW: LIO (part of SLES15 SP5)

- LUN Detail for SR665 FC Target for Tiles:

- Unless otherwise specified, an entire disk device was configured as a single LUN
- Unless otherwise specified, all storage target servers are configured identically

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

- LUN Detail for SR655 FC Target for Infrastructure OPs:

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

Server Management Notes

VMware vCenter Server 8.0 Update 3b, Build 24262322 (standard), 09-17-2024 was hosted as a VM on the Client Cluster.

Operating System Notes

SUT Host ESXi Image Profile: Lenovo Customized VMware ESXi 8.0 Update 3, Build 24022510

Software Notes

None

Client Notes

- vSphere DRS Disabled

Client BIOS Settings:

- Operating Mode set to Maximum Performance, then Custom Mode (default Maximum Efficiency)
- L2 Stream HW Prefetcher set to Disabled (default Enabled)
- L2 Up/Down Prefetcher set to Disabled (default Enabled)
- DF C-states Control set to Disabled (default Enabled)
- DF P-states Control set to P0 (default Auto)
- PCIe Power Brake Disabled (default Proactive)

Client Host Advanced Settings:

| Advanced Settings | Host 1 | Host 2 | Host 3 | Host 4 | Host 5 | Default |
|-----------------------------------|------------------|------------------|------------------|------------------|----------|----------|
| Cpu.CreditAgePeriod | 1000 | 1000 | 1000 | 1000 | 3000 | 3000 |
| Cpu.HTWholeCoreThreshold | 0 | 0 | 0 | 0 | 800 | 800 |
| DataMover.HardwareAcceleratedInit | 0 | 0 | 0 | 0 | 1 | 1 |
| DataMover.HardwareAcceleratedMove | 0 | 0 | 0 | 0 | 1 | 1 |
| Disk.IdleCredit | 64 | 64 | 64 | 64 | 32 | 32 |
| Disk.ReqCallThreshold | 1 | 1 | 1 | 1 | 8 | 8 |
| Mem.CtlMaxPercent | 0 | 0 | 0 | 0 | 65 | 65 |
| Mem.ShareScanGHz | 0 | 0 | 0 | 0 | 4 | 4 |
| Power.CpuPolicy | High Performance | High Performance | High Performance | High Performance | Balanced | Balanced |
| UserVars.HostClientCEIPOptIn | 2 | 2 | 2 | 2 | 2 | 0 |
| UserVars.HostClientSessionTimeout | 900 | 900 | 900 | 900 | 0 | 900 |
| UserVars.SuppressShellWarning | 1 | 1 | 1 | 1 | 1 | 0 |

Client Host ESXi Modules Options:

| Module | Host 1 | Host 2 | Host 3 | Host 4 | Host 5 | Default |
|--------|--------|--------|--------|--------|--------|---------|
| tcpip4 | ipv6=1 | ipv6=1 | ipv6=1 | ipv6=1 | ipv6=1 | ipv6=1 |

Client Host 1-4 ESXi Image Profile: Lenovo Customized VMware ESXi 8.0 Update 3, Build 24022510

Client Host 5 ESXi Image Profile: VMware ESXi, 8.0 Update 3b, Build 24280767 (standard)

Client Host VMs:

- Client Host 1: Client3
- Client Host 2: Client2
- Client Host 3: Client1
- Client Host 4: Client0
- Client Host 5: PrimeClient, vCenter Server

Other Notes

None

VMmark4.properties Settings

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

Virtual Machines

SUT Host Virtual Machines

| VM | vCPUs | Cores Per Socket | Memory (MB) | Sync Time | Logging | CD/DVD | CPU Res | CPU Limit | CPU Shares | Mem Res | Mem Limit | Mem Shares | Mem Pin | Mem 1G Page | Disk Shares | Datastore | Port Group | vHW Version | Tools Version |
|--------------|-------|------------------|-------------|-----------|---------|---------|---------|-----------|------------|---------|-----------|------------|---------|-------------|-------------|-----------|------------|-------------|---------------|
| AuctionAppA0 | 4 | 4 | 8192 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile0b | PortGrp2 | 17 | 12325 |
| AuctionAppA1 | 4 | 4 | 8192 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile1b | PortGrp2 | 17 | 12325 |
| AuctionAppA2 | 4 | 4 | 8192 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile2b | PortGrp2 | 17 | 12325 |
| AuctionAppA3 | 4 | 4 | 8192 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile3b | PortGrp2 | 17 | 12325 |
| VM | vCPUs | Cores Per Socket | Memory (MB) | Sync Time | Logging | CD/DVD | CPU Res | CPU Limit | CPU Shares | Mem Res | Mem Limit | Mem Shares | Mem Pin | Mem 1G Page | Disk Shares | Datastore | Port Group | vHW Version | Tools Version |
| AuctionAppB0 | 4 | 4 | 8192 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile0b | PortGrp2 | 17 | 12325 |
| AuctionAppB1 | 4 | 4 | 8192 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile1b | PortGrp2 | 17 | 12325 |
| AuctionAppB2 | 4 | 4 | 8192 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile2b | PortGrp2 | 17 | 12325 |
| AuctionAppB3 | 4 | 4 | 8192 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile3b | PortGrp2 | 17 | 12325 |
| VM | vCPUs | Cores Per Socket | Memory (MB) | Sync Time | Logging | CD/DVD | CPU Res | CPU Limit | CPU Shares | Mem Res | Mem Limit | Mem Shares | Mem Pin | Mem 1G Page | Disk Shares | Datastore | Port Group | vHW Version | Tools Version |
| AuctionAppC0 | 4 | 4 | 8192 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile0b | PortGrp2 | 17 | 12325 |
| AuctionAppC1 | 4 | 4 | 8192 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile1b | PortGrp2 | 17 | 12325 |
| AuctionAppC2 | 4 | 4 | 8192 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile2b | PortGrp2 | 17 | 12325 |
| AuctionAppC3 | 4 | 4 | 8192 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile3b | PortGrp2 | 17 | 12325 |
| VM | vCPUs | Cores Per Socket | Memory (MB) | Sync Time | Logging | CD/DVD | CPU Res | CPU Limit | CPU Shares | Mem Res | Mem Limit | Mem Shares | Mem Pin | Mem 1G Page | Disk Shares | Datastore | Port Group | vHW Version | Tools Version |
| AuctionKA0 | 8 | 1 | 32768 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile0a | PortGrp1 | 17 | 12325 |
| AuctionKA1 | 8 | 1 | 32768 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile1a | PortGrp1 | 17 | 12325 |
| AuctionKA2 | 8 | 1 | 32768 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile2a | PortGrp1 | 17 | 12325 |
| AuctionKA3 | 8 | 1 | 32768 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile3a | PortGrp1 | 17 | 12325 |
| VM | vCPUs | Cores Per Socket | Memory (MB) | Sync Time | Logging | CD/DVD | CPU Res | CPU Limit | CPU Shares | Mem Res | Mem Limit | Mem Shares | Mem Pin | Mem 1G Page | Disk Shares | Datastore | Port Group | vHW Version | Tools Version |
| AuctionKB0 | 8 | 1 | 32768 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile0a | PortGrp1 | 17 | 12325 |
| AuctionKB1 | 8 | 1 | 32768 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile1a | PortGrp1 | 17 | 12325 |
| AuctionKB2 | 8 | 1 | 32768 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile2a | PortGrp1 | 17 | 12325 |
| AuctionKB3 | 8 | 1 | 32768 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile3a | PortGrp1 | 17 | 12325 |
| VM | vCPUs | Cores Per Socket | Memory (MB) | Sync Time | Logging | CD/DVD | CPU Res | CPU Limit | CPU Shares | Mem Res | Mem Limit | Mem Shares | Mem Pin | Mem 1G Page | Disk Shares | Datastore | Port Group | vHW Version | Tools Version |

| VM | vCPUs | Socket | (MB) | Time | Logging | CD/DVD | Res | Limit | Shares | Res | Limit | Shares | Pin | Page | Shares | Datastore | Group | Version | Version |
|--------------|-------|------------------|-------------|-----------|---------|---------|---------|-----------|------------|---------|-----------|------------|---------|-------------|-------------|-----------|------------|-------------|---------------|
| AuctionWebF0 | 2 | 2 | 8192 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile0b | VM Network | 17 | 12325 |
| AuctionWebF1 | 2 | 2 | 8192 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile1b | VM Network | 17 | 12325 |
| AuctionWebF2 | 2 | 2 | 8192 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile2b | VM Network | 17 | 12325 |
| AuctionWebF3 | 2 | 2 | 8192 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile3b | 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 | normal | TRUE | TRUE | normal | SS_Tile0d | PortGrp2 | 17 | 12325 |
| DS35DB1 | 24 | 24 | 49152 | TRUE | FALSE | Removed | 0 | Unlimited | high | 49152 | Unlimited | normal | TRUE | TRUE | normal | SS_Tile1d | PortGrp2 | 17 | 12325 |
| DS35DB2 | 24 | 24 | 49152 | TRUE | FALSE | Removed | 0 | Unlimited | high | 49152 | Unlimited | normal | TRUE | TRUE | normal | SS_Tile2d | PortGrp2 | 17 | 12325 |
| DS35DB3 | 24 | 24 | 49152 | TRUE | FALSE | Removed | 0 | Unlimited | high | 49152 | Unlimited | normal | TRUE | TRUE | normal | SS_Tile3d | PortGrp2 | 17 | 12325 |
| VM | vCPUs | Cores Per Socket | Memory (MB) | Sync Time | Logging | CD/DVD | CPU Res | CPU Limit | CPU Shares | Mem Res | Mem Limit | Mem Shares | Mem Pin | Mem 1G Page | Disk Shares | Datastore | Port Group | vHW Version | Tools Version |
| DS35WebA0 | 6 | 6 | 512 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile0d | PortGrp2 | 17 | 12325 |
| DS35WebA1 | 6 | 6 | 512 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile1d | PortGrp2 | 17 | 12325 |
| DS35WebA2 | 6 | 6 | 512 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile2d | PortGrp2 | 17 | 12325 |
| DS35WebA3 | 6 | 6 | 512 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile3d | PortGrp2 | 17 | 12325 |
| VM | vCPUs | Cores Per Socket | Memory (MB) | Sync Time | Logging | CD/DVD | CPU Res | CPU Limit | CPU Shares | Mem Res | Mem Limit | Mem Shares | Mem Pin | Mem 1G Page | Disk Shares | Datastore | Port Group | vHW Version | Tools Version |
| DS35WebB0 | 6 | 6 | 512 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile0b | PortGrp2 | 17 | 12325 |
| DS35WebB1 | 6 | 6 | 512 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile1b | PortGrp2 | 17 | 12325 |
| DS35WebB2 | 6 | 6 | 512 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile2b | PortGrp2 | 17 | 12325 |
| DS35WebB3 | 6 | 6 | 512 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile3b | PortGrp2 | 17 | 12325 |
| VM | vCPUs | Cores Per Socket | Memory (MB) | Sync Time | Logging | CD/DVD | CPU Res | CPU Limit | CPU Shares | Mem Res | Mem Limit | Mem Shares | Mem Pin | Mem 1G Page | Disk Shares | Datastore | Port Group | vHW Version | Tools Version |
| DS35WebC0 | 6 | 6 | 512 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile0d | PortGrp2 | 17 | 12325 |
| DS35WebC1 | 6 | 6 | 512 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile1d | PortGrp2 | 17 | 12325 |
| DS35WebC2 | 6 | 6 | 512 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile2d | PortGrp2 | 17 | 12325 |
| DS35WebC3 | 6 | 6 | 512 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile3d | PortGrp2 | 17 | 12325 |
| VM | vCPUs | Cores Per Socket | Memory (MB) | Sync Time | Logging | CD/DVD | CPU Res | CPU Limit | CPU Shares | Mem Res | Mem Limit | Mem Shares | Mem Pin | Mem 1G Page | Disk Shares | Datastore | Port Group | vHW Version | Tools Version |
| NoSQLBenchA0 | 8 | 8 | 8192 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile0d | PortGrp2 | 17 | 12325 |
| NoSQLBenchA1 | 8 | 8 | 8192 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile1d | PortGrp2 | 17 | 12325 |
| NoSQLBenchA2 | 8 | 8 | 8192 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile2d | PortGrp2 | 17 | 12325 |
| NoSQLBenchA3 | 8 | 8 | 8192 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile3d | PortGrp2 | 17 | 12325 |
| VM | vCPUs | Cores Per Socket | Memory (MB) | Sync Time | Logging | CD/DVD | CPU Res | CPU Limit | CPU Shares | Mem Res | Mem Limit | Mem Shares | Mem Pin | Mem 1G Page | Disk Shares | Datastore | Port Group | vHW Version | Tools Version |
| NoSQLBenchB0 | 8 | 8 | 8192 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile0c | PortGrp2 | 17 | 12325 |

| | | | | | | | | | | | | | | | | | | | |
|------------------|--------------|-------------------------|--------------------|------------------|----------------|---------------|----------------|------------------|-------------------|----------------|------------------|-------------------|----------------|--------------------|--------------------|------------------|-------------------|--------------------|----------------------|
| NoSQLBenchB1 | 8 | 8 | 8192 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile1c | PortGrp2 | 17 | 12325 |
| NoSQLBenchB2 | 8 | 8 | 8192 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile2c | PortGrp2 | 17 | 12325 |
| NoSQLBenchB3 | 8 | 8 | 8192 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile3c | PortGrp2 | 17 | 12325 |
| VM | vCPUs | Cores Per Socket | Memory (MB) | Sync Time | Logging | CD/DVD | CPU Res | CPU Limit | CPU Shares | Mem Res | Mem Limit | Mem Shares | Mem Pin | Mem 1G Page | Disk Shares | Datastore | Port Group | vHW Version | Tools Version |
| NoSQLBenchC0 | 8 | 8 | 8192 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile0b | PortGrp2 | 17 | 12325 |
| NoSQLBenchC1 | 8 | 8 | 8192 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile1b | PortGrp2 | 17 | 12325 |
| NoSQLBenchC2 | 8 | 8 | 8192 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile2b | PortGrp2 | 17 | 12325 |
| NoSQLBenchC3 | 8 | 8 | 8192 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile3b | PortGrp2 | 17 | 12325 |
| VM | vCPUs | Cores Per Socket | Memory (MB) | Sync Time | Logging | CD/DVD | CPU Res | CPU Limit | CPU Shares | Mem Res | Mem Limit | Mem Shares | Mem Pin | Mem 1G Page | Disk Shares | Datastore | Port Group | vHW Version | Tools Version |
| SocialNetwork0 | 36 | 36 | 16384 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile0a | PortGrp3 | 17 | 12325 |
| SocialNetwork1 | 36 | 36 | 16384 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile1a | PortGrp3 | 17 | 12325 |
| SocialNetwork2 | 36 | 36 | 16384 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile2a | PortGrp3 | 17 | 12325 |
| SocialNetwork3 | 36 | 36 | 16384 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile3a | PortGrp3 | 17 | 12325 |
| VM | vCPUs | Cores Per Socket | Memory (MB) | Sync Time | Logging | CD/DVD | CPU Res | CPU Limit | CPU Shares | Mem Res | Mem Limit | Mem Shares | Mem Pin | Mem 1G Page | Disk Shares | Datastore | Port Group | vHW Version | Tools Version |
| Standby0 | 1 | 1 | 2048 | TRUE | FALSE | Removed | 0 | Unlimited | low | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile0c | PortGrp2 | 17 | 12325 |
| Standby1 | 1 | 1 | 2048 | TRUE | FALSE | Removed | 0 | Unlimited | low | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile1c | PortGrp2 | 17 | 12325 |
| Standby2 | 1 | 1 | 2048 | TRUE | FALSE | Removed | 0 | Unlimited | low | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile2c | PortGrp2 | 17 | 12325 |
| Standby3 | 1 | 1 | 2048 | TRUE | FALSE | Removed | 0 | Unlimited | low | 0 | Unlimited | normal | FALSE | FALSE | normal | SS_Tile3c | PortGrp2 | 17 | 12325 |
| VM | vCPUs | Cores Per Socket | Memory (MB) | Sync Time | Logging | CD/DVD | CPU Res | CPU Limit | CPU Shares | Mem Res | Mem Limit | Mem Shares | Mem Pin | Mem 1G Page | Disk Shares | Datastore | Port Group | vHW Version | Tools Version |
| VMmark-4.0.1-208 | 4 | 1 | 32768 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | Template | VM Network | 17 | 12325 |

Client Host Virtual Machines

| VM | vCPUs | Cores Per Socket | Memory (MB) | Sync Time | Logging | CD/DVD | CPU Res | CPU Limit | CPU Shares | Mem Res | Mem Limit | Mem Shares | Mem Pin | Mem 1G Page | Disk Shares | Datastore | Port Group | vHW Version | Tools Version |
|-----------------------|--------------|-------------------------|--------------------|------------------|----------------|---------------|----------------|------------------|-------------------|----------------|------------------|-------------------|----------------|--------------------|--------------------|------------------|-------------------|--------------------|----------------------|
| Client0 | 96 | 48 | 983040 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | Client0 | VM Network | 17 | 12325 |
| Client1 | 96 | 48 | 983040 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | Client1 | VM Network | 17 | 12325 |
| Client2 | 96 | 48 | 983040 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | Client0 | VM Network | 17 | 12325 |
| Client3 | 96 | 48 | 983040 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | Client1 | VM Network | 17 | 12325 |
| PrimeClient | 4 | 1 | 32768 | TRUE | FALSE | Removed | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | Primeclient | Primeclient | 17 | 12325 |
| VMware vCenter Server | 32 | 1 | 399360 | FALSE | TRUE | Present | 0 | Unlimited | normal | 0 | Unlimited | normal | FALSE | FALSE | normal | vcsa_8U3 | VM Network | 10 | 12389 |

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