

# 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 =  
 2.64 @ 3 Tiles

|  |  |   |
|--|--|---|
| Number of Hosts: 2   | Uniform Hosts: yes                                     | Total sockets/cores/threads in test: 4/256/512      |
| Tested By: Infobell IT Private, LTD                          | Test Date: 10-02-2024                                  | SUT Availability Date: 07-05-2023                   |
| Performance Section<br><a href="#">Performance</a>           | Configuration Section<br><a href="#">Configuration</a> | Notes Section<br><a href="#">Notes for Workload</a> |
| Virtual Machines Section<br><a href="#">Virtual Machines</a> |  |   |

## Performance

| TILE_0_Scores | WVAuctionVM  | WVAuctionK8S  | DVDStoreA | DVDStoreB | DVDStoreC | NoSQLBenchA | NoSQLBenchB | NoSQLBenchC | SocialNetwork | Standby |          |
|---------------|--------------|---------------|-----------|-----------|-----------|-------------|-------------|-------------|---------------|---------|----------|
| p0            | 14098.15     | 9225.73       | 3136.12   | 2309.38   | 1809.67   | 53973.30    | 53938.00    | 53974.97    | 69.09         | 1.00    |          |
| p1            | 14075.35     | 9241.46       | 3100.68   | 2316.95   | 1731.00   | 52897.88    | 52898.05    | 52898.10    | 68.61         | 1.00    |          |
| p2            | 14092.06     | 9224.57       | 3114.35   | 2346.28   | 1794.05   | 51266.75    | 51266.80    | 51267.39    | 67.67         | 1.00    |          |
| TILE_0_Ratios | WVAuctionVM  | WVAuctionK8S  | DVDStoreA | DVDStoreB | DVDStoreC | NoSQLBenchA | NoSQLBenchB | NoSQLBenchC | SocialNetwork | Standby | Geo.Mean |
| p0            | 1.01         | 1.00          | 1.08      | 1.07      | 1.18      | 0.96        | 0.95        | 0.96        | 0.96          | 1.00    | 1.02     |
| p1            | 1.01         | 1.00          | 1.07      | 1.08      | 1.13      | 0.94        | 0.94        | 0.94        | 0.95          | 1.00    | 1.00     |
| p2            | 1.01         | 1.00          | 1.07      | 1.09      | 1.17      | 0.91        | 0.91        | 0.91        | 0.94          | 1.00    | 1.00     |
| TILE_0_QoS    | WVAuctionVM% | WVAuctionK8S% | DVDStoreA | DVDStoreB | DVDStoreC | NoSQLBenchA | NoSQLBenchB | NoSQLBenchC |               |         |          |
| p0            | 0.59   0.08  | 0.33   0.00   | 283.82    | 311.34    | 287.02    | 0.61        | 0.61        | 0.61        |               |         |          |
| p1            | 0.60   0.09  | 0.38   0.00   | 301.50    | 311.83    | 282.17    | 0.64        | 0.64        | 0.64        |               |         |          |
| p2            | 0.69   0.14  | 0.35   0.00   | 294.44    | 293.64    | 295.21    | 0.67        | 0.67        | 0.67        |               |         |          |
| TILE_1_Scores | WVAuctionVM  | WVAuctionK8S  | DVDStoreA | DVDStoreB | DVDStoreC | NoSQLBenchA | NoSQLBenchB | NoSQLBenchC | SocialNetwork | Standby |          |
| p0            | 14088.96     | 9252.06       | 3043.68   | 2160.00   | 1635.75   | 51935.00    | 51971.02    | 51970.65    | 71.77         | 1.00    |          |
| p1            | 14102.15     | 9236.53       | 3002.00   | 2335.43   | 1729.88   | 49909.09    | 49909.28    | 49909.25    | 71.24         | 1.00    |          |
| p2            | 14095.45     | 9235.79       | 2989.03   | 2207.50   | 1633.92   | 48150.99    | 48151.03    | 48151.23    | 70.61         | 1.00    |          |
| TILE_1_Ratios | WVAuctionVM  | WVAuctionK8S  | DVDStoreA | DVDStoreB | DVDStoreC | NoSQLBenchA | NoSQLBenchB | NoSQLBenchC | SocialNetwork | Standby | Geo.Mean |
| p0            | 1.01         | 1.01          | 1.05      | 1.00      | 1.07      | 0.92        | 0.92        | 0.92        | 1.00          | 1.00    | 0.99     |
| p1            | 1.01         | 1.00          | 1.04      | 1.09      | 1.13      | 0.88        | 0.88        | 0.88        | 0.99          | 1.00    | 0.99     |
| p2            | 1.01         | 1.00          | 1.03      | 1.03      | 1.07      | 0.85        | 0.85        | 0.85        | 0.98          | 1.00    | 0.96     |
| TILE_1_QoS    | WVAuctionVM% | WVAuctionK8S% | DVDStoreA | DVDStoreB | DVDStoreC | NoSQLBenchA | NoSQLBenchB | NoSQLBenchC |               |         |          |
| p0            | 0.58   0.09  | 0.40   0.00   | 331.98    | 371.16    | 378.63    | 0.66        | 0.66        | 0.66        |               |         |          |

|                      |                     |                      |                  |                  |                  |                    |                    |                    |                      |                |                 |
|----------------------|---------------------|----------------------|------------------|------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------|-----------------|
| <b>p1</b>            | 0.60   0.09         | 0.41   0.01          | 356.57           | 354.54           | 360.50           | 0.70               | 0.70               | 0.70               |                      |                |                 |
| <b>p2</b>            | 0.65   0.11         | 0.45   0.01          | 367.36           | 339.26           | 374.11           | 0.72               | 0.72               | 0.72               |                      |                |                 |
| <b>TILE_2_Scores</b> | <b>WVAuctionVM</b>  | <b>WVAuctionK8S</b>  | <b>DVDStoreA</b> | <b>DVDStoreB</b> | <b>DVDStoreC</b> | <b>NoSQLBenchA</b> | <b>NoSQLBenchB</b> | <b>NoSQLBenchC</b> | <b>SocialNetwork</b> | <b>Standby</b> |                 |
| <b>p0</b>            | 14098.57            | 9237.84              | 3046.95          | 2192.72          | 1697.30          | 54488.39           | 54489.34           | 54364.55           | 71.80                | 1.00           |                 |
| <b>p1</b>            | 14091.55            | 9229.92              | 3050.32          | 2342.95          | 1769.78          | 53257.74           | 53258.38           | 53257.79           | 71.37                | 1.00           |                 |
| <b>p2</b>            | 14088.08            | 9229.07              | 3047.25          | 2248.70          | 1668.47          | 51462.91           | 51462.64           | 51462.99           | 71.08                | 1.00           |                 |
| <b>TILE_2_Ratios</b> | <b>WVAuctionVM</b>  | <b>WVAuctionK8S</b>  | <b>DVDStoreA</b> | <b>DVDStoreB</b> | <b>DVDStoreC</b> | <b>NoSQLBenchA</b> | <b>NoSQLBenchB</b> | <b>NoSQLBenchC</b> | <b>SocialNetwork</b> | <b>Standby</b> | <b>Geo.Mean</b> |
| <b>p0</b>            | 1.01                | 1.00                 | 1.05             | 1.02             | 1.11             | 0.96               | 0.96               | 0.96               | 1.00                 | 1.00           | 1.01            |
| <b>p1</b>            | 1.01                | 1.00                 | 1.05             | 1.09             | 1.16             | 0.94               | 0.94               | 0.94               | 0.99                 | 1.00           | 1.01            |
| <b>p2</b>            | 1.01                | 1.00                 | 1.05             | 1.05             | 1.09             | 0.91               | 0.91               | 0.91               | 0.99                 | 1.00           | 0.99            |
| <b>TILE_2_QoS</b>    | <b>WVAuctionVM%</b> | <b>WVAuctionK8S%</b> | <b>DVDStoreA</b> | <b>DVDStoreB</b> | <b>DVDStoreC</b> | <b>NoSQLBenchA</b> | <b>NoSQLBenchB</b> | <b>NoSQLBenchC</b> |                      |                |                 |
| <b>p0</b>            | 0.50   0.04         | 0.35   0.00          | 333.73           | 348.45           | 317.80           | 0.60               | 0.60               | 0.60               |                      |                |                 |
| <b>p1</b>            | 0.59   0.09         | 0.34   0.00          | 330.91           | 345.46           | 323.92           | 0.63               | 0.63               | 0.63               |                      |                |                 |
| <b>p2</b>            | 0.55   0.05         | 0.36   0.00          | 332.32           | 307.68           | 341.11           | 0.64               | 0.63               | 0.64               |                      |                |                 |
| <b>p0_score:</b>     | 3.01                |                      |                  |                  |                  |                    |                    |                    |                      |                |                 |
| <b>p1_score:</b>     | 3.00                |                      |                  |                  |                  |                    |                    |                    |                      |                |                 |
| <b>p2_score:</b>     | 2.95                |                      |                  |                  |                  |                    |                    |                    |                      |                |                 |

| <b>Infrastructure_Operations_Scores:</b> |  |  |  |  |  | <b>vMotion</b> | <b>SVMotion</b> | <b>XVMotion</b> | <b>Deploy</b> |
|--|--|--|--|--|--|----------------|-----------------|-----------------|---------------|
| <b>Completed_Ops_PerHour</b>             |  |  |  |  |  | 29.50          | 17.00           | 17.00           | 16.50         |
| <b>Avg_Seconds_To_Complete</b>           |  |  |  |  |  | 1.12           | 2.50            | 2.97            | 172.15        |
| <b>Failures</b>                          |  |  |  |  |  | 0.00           | 0.00            | 0.00            | 0.00          |
| <b>Ratio</b>                             |  |  |  |  |  | 1.00           | 1.31            | 1.31            | 1.14          |
| <b>Number_Of_Threads</b>                 |  |  |  |  |  | 1              | 1               | 1               | 1             |

| <b>Summary</b>                                 |  |  |  |  |  | <b>Run_Is_Compliant</b> |  | <b>Median_Phase(p1)</b> |  |
|--|--|--|--|--|--|-------------------------|--|-------------------------|--|
| <b>Unreviewed_VMmark4_Applications_Score</b>   |  |  |  |  |  | 3.00                    |  |                         |  |
| <b>Unreviewed_VMmark4_Infrastructure_Score</b> |  |  |  |  |  | 1.18                    |  |                         |  |
| <b>Unreviewed_VMmark4_Score</b>                |  |  |  |  |  | 2.64 @ 3 Tiles          |  |                         |  |

## Configuration

| <b>Virtualization Software</b>  |   |
|---|---|
| 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 |
|-----------------------|------|

|                |  |
|----------------|--|
| <b>Servers</b> |  |
|----------------|--|

|  |   |
|--|---|
| Number of Servers in System Under Test<br>(all subsequent fields in this section are per Server) | 2 |
|--|---|

|                               |                           |
|-------------------------------|---------------------------|
| Server Manufacturer and Model | Supermicro AS -2125HS-TNR |
|-------------------------------|---------------------------|

|                            |               |
|----------------------------|---------------|
| Processor Vendor and Model | AMD EPYC 9554 |
|----------------------------|---------------|

|   |                    |
|---|--------------------|
| Processor Speed (GHz) / Turbo Boost Speed (GHz) | 3.1 GHz / 3.75 GHz |
|---|--------------------|

|   |                                     |
|---|-------------------------------------|
| Total Sockets/Total Cores/Total Threads | 2 Sockets / 128 Cores / 256 Threads |
|---|-------------------------------------|

|            |   |
|------------|---|
| NUMA Nodes | 2 |
|------------|---|

|              |     |
|--------------|-----|
| BIOS Version | 1.6 |
|--------------|-----|

|                                      |   |
|--------------------------------------|---|
| Memory Size (in GB, Number of DIMMs) | Physical Memory (BIOS): 768 GB<br>Physical Memory (ESXi): 768 GB<br>Number of DIMMs: 24 |
|--------------------------------------|---|

| Memory Type and Speed | 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 |
|                       | 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 |

|  |                  |       |           |           |   |      |                         |
|--|------------------|-------|-----------|-----------|---|------|-------------------------|
|  | <b>P2-DIMME1</b> | 32 GB | 4800 MT/s | 5600 MT/s | 1 | DDR5 | Synchronous, Registered |
|  | <b>P2-DIMMF1</b> | 32 GB | 4800 MT/s | 5600 MT/s | 1 | DDR5 | Synchronous, Registered |
|  | <b>P2-DIMMG1</b> | 32 GB | 4800 MT/s | 5600 MT/s | 1 | DDR5 | Synchronous, Registered |
|  | <b>P2-DIMMH1</b> | 32 GB | 4800 MT/s | 5600 MT/s | 1 | DDR5 | Synchronous, Registered |
|  | <b>P2-DIMMI1</b> | 32 GB | 4800 MT/s | 5600 MT/s | 1 | DDR5 | Synchronous, Registered |
|  | <b>P2-DIMMJ1</b> | 32 GB | 4800 MT/s | 5600 MT/s | 1 | DDR5 | Synchronous, Registered |
|  | <b>P2-DIMMK1</b> | 32 GB | 4800 MT/s | 5600 MT/s | 1 | DDR5 | Synchronous, Registered |
|  | <b>P2-DIMML1</b> | 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 | <b>HBA</b>     | <b>Model</b>   | <b>Speed</b> | <b>Driver</b> | <b>Firmware</b> |
|   | <b>vmhba0</b>  | Emulex LPe35002-M2 2-Port 32Gb Fibre Channel Adapter | 16 Gbps      | lpfc          | 14.0.505.12     |
|   | <b>vmhba1</b>  | Emulex LPe35002-M2 2-Port 32Gb Fibre Channel Adapter | 16 Gbps      | lpfc          | 14.0.505.12     |
|   | <b>vmhba64</b> | Emulex LPe35002-M2 2-Port 32Gb Fibre Channel Adapter | 16 Gbps      | lpfc          | 14.0.505.12     |
|   | <b>vmhba65</b> | Emulex LPe35002-M2 2-Port 32Gb Fibre Channel Adapter | 16 Gbps      | lpfc          | 14.0.505.12     |

|                |  |
|----------------|--|
| Other Hardware | 2x 1600W Redundant power supplies<br>Servers were air-cooled |
|----------------|--|

|                |      |
|----------------|------|
| Other Software | None |
|----------------|------|

|                                     |            |
|-------------------------------------|------------|
| BIOS Availability Date (MM-DD-YYYY) | 11-16-2023 |
|-------------------------------------|------------|

|   |            |
|---|------------|
| Hardware Availability Date (MM-DD-YYYY) | 06-13-2023 |
|---|------------|

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

**Network**

|                                       |   |
|---------------------------------------|---|
| Number of Virtual Network Controllers | 2 |
|---------------------------------------|---|

|   |               |              |               |            |                    |               |  |
|---|---------------|--------------|---------------|------------|--------------------|---------------|--|
| Virtual Network Controllers, Speeds, MTUs, Firmware, Drivers, Vendors, and Models | <b>Device</b> | <b>Speed</b> | <b>Duplex</b> | <b>MTU</b> | <b>Firmware</b>    | <b>Driver</b> | <b>Description</b>                               |
|   | <b>vmnic0</b> | 25 Gbps      | Full          | 9000       | 8.0.0.1015 rx0 tx0 | sfvmk         | Solarflare XtremeScale X2522 25G Network Adapter |
|   | <b>vmnic1</b> | 25 Gbps      | Full          | 9000       | 8.0.0.1015 rx0 tx0 | sfvmk         | Solarflare XtremeScale X2522 25G Network Adapter |

|                            |   |
|----------------------------|---|
| Number of Virtual Switches | 1 |
|----------------------------|---|

|  |                 |              |                         |            |                |
|--|-----------------|--------------|-------------------------|------------|----------------|
|  | <b>Switch</b>   | <b>Ports</b> | <b>Configured Ports</b> | <b>MTU</b> | <b>Uplinks</b> |
|  | <b>vSwitch0</b> | 9216         | 128                     | 9000       | vmnic0, vmnic1 |

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

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

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

| 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

| 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 |
| 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

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| Storage Device                               | Size    | Type          | Vendor | Model      | Revision | Path Selection Policy | Path Selection Policy Config               | # Working Paths |
|--|---------|---------------|--------|------------|----------|-----------------------|--|-----------------|
| <b>PURE Fibre Channel Disk (Boot Device)</b> | 34.4 GB | Direct-Access | PURE   | FlashArray | 8888     | VMW_PSP_RR            | policy=iops,iops=1,bytes=10485760,useANO=0 | 2               |
| <b>PURE Fibre Channel Disk</b>               | 2.2 TB  | Direct-Access | PURE   | FlashArray | 8888     | VMW_PSP_RR            | policy=iops,iops=1,bytes=10485760,useANO=0 | 2               |
| <b>PURE Fibre Channel Disk</b>               | 2.2 TB  | Direct-Access | PURE   | FlashArray | 8888     | VMW_PSP_RR            | policy=iops,iops=1,bytes=10485760,useANO=0 | 2               |
| <b>PURE Fibre Channel Disk</b>               | 2.2 TB  | Direct-Access | PURE   | FlashArray | 8888     | VMW_PSP_RR            | policy=iops,iops=1,bytes=10485760,useANO=0 | 2               |
| <b>PURE Fibre Channel Disk</b>               | 2.2 TB  | Direct-Access | PURE   | FlashArray | 8888     | VMW_PSP_RR            | policy=iops,iops=1,bytes=10485760,useANO=0 | 2               |
| <b>PURE Fibre Channel Disk</b>               | 2.2 TB  | Direct-Access | PURE   | FlashArray | 8888     | VMW_PSP_RR            | policy=iops,iops=1,bytes=10485760,useANO=0 | 2               |
| <b>PURE Fibre Channel Disk</b>               | 2.2 TB  | Direct-Access | PURE   | FlashArray | 8888     | VMW_PSP_RR            | policy=iops,iops=1,bytes=10485760,useANO=0 | 2               |
| <b>PURE Fibre Channel Disk</b>               | 2.2 TB  | Direct-Access | PURE   | FlashArray | 8888     | VMW_PSP_RR            | policy=iops,iops=1,bytes=10485760,useANO=0 | 2               |
| <b>PURE Fibre Channel Disk</b>               | 2.2 TB  | Direct-Access | PURE   | FlashArray | 8888     | VMW_PSP_RR            | policy=iops,iops=1,bytes=10485760,useANO=0 | 2               |
| <b>PURE Fibre Channel Disk</b>               | 2.2 TB  | Direct-Access | PURE   | FlashArray | 8888     | VMW_PSP_RR            | policy=iops,iops=1,bytes=10485760,useANO=0 | 2               |
| <b>PURE Fibre Channel Disk</b>               | 2.2 TB  | Direct-Access | PURE   | FlashArray | 8888     | VMW_PSP_RR            | policy=iops,iops=1,bytes=10485760,useANO=0 | 2               |
| <b>PURE Fibre Channel Disk</b>               | 2.2 TB  | Direct-Access | PURE   | FlashArray | 8888     | VMW_PSP_RR            | policy=iops,iops=1,bytes=10485760,useANO=0 | 2               |
| <b>PURE Fibre Channel Disk</b>               | 2.2 TB  | Direct-Access | PURE   | FlashArray | 8888     | VMW_PSP_RR            | policy=iops,iops=1,bytes=10485760,useANO=0 | 2               |
| <b>PURE Fibre Channel Disk</b>               | 2.2 TB  | Direct-Access | PURE   | FlashArray | 8888     | VMW_PSP_RR            | policy=iops,iops=1,bytes=10485760,useANO=0 | 2               |
| <b>PURE Fibre Channel Disk</b>               | 2.2 TB  | Direct-Access | PURE   | FlashArray | 8888     | VMW_PSP_RR            | policy=iops,iops=1,bytes=10485760,useANO=0 | 2               |
| <b>PURE Fibre Channel Disk</b>               | 2.2 TB  | Direct-Access | PURE   | FlashArray | 8888     | VMW_PSP_RR            | policy=iops,iops=1,bytes=10485760,useANO=0 | 2               |
| <b>PURE Fibre Channel Disk</b>               | 2.2 TB  | Direct-Access | PURE   | FlashArray | 8888     | VMW_PSP_RR            | policy=iops,iops=1,bytes=10485760,useANO=0 | 2               |
| <b>PURE Fibre Channel Disk</b>               | 2.2 TB  | Direct-Access | PURE   | FlashArray | 8888     | VMW_PSP_RR            | policy=iops,iops=1,bytes=10485760,useANO=0 | 2               |
| <b>PURE Fibre Channel Disk</b>               | 8.8 TB  | Direct-Access | PURE   | FlashArray | 8888     | VMW_PSP_RR            | policy=iops,iops=1,bytes=10485760,useANO=0 | 2               |
| <b>PURE Fibre Channel Disk</b>               | 8.8 TB  | Direct-Access | PURE   | FlashArray | 8888     | VMW_PSP_RR            | policy=iops,iops=1,bytes=10485760,useANO=0 | 2               |
| <b>PURE Fibre Channel Disk</b>               | 35.2 TB | Direct-Access | PURE   | FlashArray | 8888     | VMW_PSP_RR            | policy=iops,iops=1,bytes=10485760,useANO=0 | 2               |
| <b>PURE Fibre Channel Disk</b>               | 35.2 TB | Direct-Access | PURE   | FlashArray | 8888     | VMW_PSP_RR            | policy=iops,iops=1,bytes=10485760,useANO=0 | 2               |

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

|                                       |   |
|---------------------------------------|---|
| 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) | 4 |
| Number of Client Hosts                    |   |

| (all subsequent fields in this section are per Client Host) | 4  |          |         |      |            |            |   |  |             |         |       |               |               |          |               |             |               |               |          |         |               |            |            |   |               |          |      |      |              |            |   |               |        |          |      |      |            |            |   |        |          |      |      |            |            |   |
|---|--|----------|---------|------|------------|------------|---|--|-------------|---------|-------|---------------|---------------|----------|---------------|-------------|---------------|---------------|----------|---------|---------------|------------|------------|---|---------------|----------|------|------|--------------|------------|---|---------------|--------|----------|------|------|------------|------------|---|--------|----------|------|------|------------|------------|---|
| System Model(s)   | <ul style="list-style-type: none"> <li>Client Host 1: Supermicro AS -1124US-TNRP</li> <li>Client Host 2: Supermicro AS -1124US-TNRP</li> <li>Client Host 3: Supermicro AS -1124US-TNRP</li> <li>Client Host 4: Supermicro AS -1124US-TNRP</li> </ul>   |          |         |      |            |            |   |  |             |         |       |               |               |          |               |             |               |               |          |         |               |            |            |   |               |          |      |      |              |            |   |               |        |          |      |      |            |            |   |        |          |      |      |            |            |   |
| Processor Vendor(s) and Model(s)                            | <ul style="list-style-type: none"> <li>Client Host 1: AMD EPYC 7763</li> <li>Client Host 2: AMD EPYC 7763</li> <li>Client Host 3: AMD EPYC 7763</li> <li>Client Host 4: AMD EPYC 7763</li> </ul>   |          |         |      |            |            |   |  |             |         |       |               |               |          |               |             |               |               |          |         |               |            |            |   |               |          |      |      |              |            |   |               |        |          |      |      |            |            |   |        |          |      |      |            |            |   |
| Processor Speed(s) (GHz)                                    | <ul style="list-style-type: none"> <li>Client Host 1: 2.45 GHz</li> <li>Client Host 2: 2.45 GHz</li> <li>Client Host 3: 2.45 GHz</li> <li>Client Host 4: 2.45 GHz</li> </ul>   |          |         |      |            |            |   |  |             |         |       |               |               |          |               |             |               |               |          |         |               |            |            |   |               |          |      |      |              |            |   |               |        |          |      |      |            |            |   |        |          |      |      |            |            |   |
| Total Sockets/Total Cores/Total Threads                     | <table border="1"> <thead> <tr> <th>Client Host</th> <th>Sockets</th> <th>Cores</th> <th>Threads</th> </tr> </thead> <tbody> <tr> <td>Client Host 1</td> <td>2</td> <td>128</td> <td>256</td> </tr> <tr> <td>Client Host 2</td> <td>2</td> <td>128</td> <td>256</td> </tr> <tr> <td>Client Host 3</td> <td>2</td> <td>128</td> <td>256</td> </tr> <tr> <td>Client Host 4</td> <td>2</td> <td>128</td> <td>256</td> </tr> <tr> <td><b>Total</b></td> <td>8</td> <td>512</td> <td>1024</td> </tr> </tbody> </table>  |          |         |      |            |            |   |  | Client Host | Sockets | Cores | Threads       | Client Host 1 | 2        | 128           | 256         | Client Host 2 | 2             | 128      | 256     | Client Host 3 | 2          | 128        | 256   | Client Host 4 | 2        | 128  | 256  | <b>Total</b> | 8          | 512   | 1024          |        |          |      |      |            |            |   |        |          |      |      |            |            |   |
| 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     |      |            |            |   |  |             |         |       |               |               |          |               |             |               |               |          |         |               |            |            |   |               |          |      |      |              |            |   |               |        |          |      |      |            |            |   |        |          |      |      |            |            |   |
| <b>Total</b>  | 8  | 512      | 1024    |      |            |            |   |  |             |         |       |               |               |          |               |             |               |               |          |         |               |            |            |   |               |          |      |      |              |            |   |               |        |          |      |      |            |            |   |        |          |      |      |            |            |   |
| NUMA Nodes  | <ul style="list-style-type: none"> <li>Client Host 1: 2</li> <li>Client Host 2: 2</li> <li>Client Host 3: 2</li> <li>Client Host 4: 2</li> </ul>   |          |         |      |            |            |   |  |             |         |       |               |               |          |               |             |               |               |          |         |               |            |            |   |               |          |      |      |              |            |   |               |        |          |      |      |            |            |   |        |          |      |      |            |            |   |
| Memory Size (in GB) per Client Host                         | <table border="1"> <thead> <tr> <th>Client Host</th> <th>BIOS</th> <th>ESXi</th> </tr> </thead> <tbody> <tr> <td>Client Host 1</td> <td>2048 GB</td> <td>2036 GB</td> </tr> <tr> <td>Client Host 2</td> <td>2048 GB</td> <td>2036 GB</td> </tr> <tr> <td>Client Host 3</td> <td>2048 GB</td> <td>2036 GB</td> </tr> <tr> <td>Client Host 4</td> <td>1920 GB</td> <td>1920 GB</td> </tr> </tbody> </table>  |          |         |      |            |            |   |  | Client Host | BIOS    | ESXi  | Client Host 1 | 2048 GB       | 2036 GB  | Client Host 2 | 2048 GB     | 2036 GB       | Client Host 3 | 2048 GB  | 2036 GB | Client Host 4 | 1920 GB    | 1920 GB    |   |               |          |      |      |              |            |   |               |        |          |      |      |            |            |   |        |          |      |      |            |            |   |
| 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  |         |      |            |            |   |  |             |         |       |               |               |          |               |             |               |               |          |         |               |            |            |   |               |          |      |      |              |            |   |               |        |          |      |      |            |            |   |        |          |      |      |            |            |   |
| Virtual Network Controllers, Speeds, MTUs, Firmware,        | <table border="1"> <thead> <tr> <th>Client Host</th> <th>Device</th> <th>Speed</th> <th>Duplex</th> <th>MTU</th> <th>Firmware</th> <th>Driver</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Client Host 1</td> <td>vmnic0</td> <td>100 Gbps</td> <td>Full</td> <td>9000</td> <td>20.28.4000</td> <td>nmlx5_core</td> <td>Mellanox Technologies MT28908 Family [ConnectX-6]</td> </tr> <tr> <td>vmnic1</td> <td>100 Gbps</td> <td>Full</td> <td>9000</td> <td>20.28.4000</td> <td>nmlx5_core</td> <td>Mellanox Technologies MT28908 Family [ConnectX-6]</td> </tr> <tr> <td rowspan="2">Client Host 2</td> <td>vmnic0</td> <td>100 Gbps</td> <td>Full</td> <td>9000</td> <td>20.27.1016</td> <td>nmlx5_core</td> <td>Mellanox Technologies MT28908 Family [ConnectX-6]</td> </tr> <tr> <td>vmnic1</td> <td>100 Gbps</td> <td>Full</td> <td>9000</td> <td>20.27.1016</td> <td>nmlx5_core</td> <td>Mellanox Technologies MT28908 Family [ConnectX-6]</td> </tr> </tbody> </table> |          |         |      |            |            |   |  | Client Host | Device  | Speed | Duplex        | MTU           | Firmware | Driver        | Description | Client Host 1 | vmnic0        | 100 Gbps | Full    | 9000          | 20.28.4000 | nmlx5_core | Mellanox Technologies MT28908 Family [ConnectX-6] | vmnic1        | 100 Gbps | Full | 9000 | 20.28.4000   | nmlx5_core | Mellanox Technologies MT28908 Family [ConnectX-6] | Client Host 2 | vmnic0 | 100 Gbps | Full | 9000 | 20.27.1016 | nmlx5_core | Mellanox Technologies MT28908 Family [ConnectX-6] | vmnic1 | 100 Gbps | Full | 9000 | 20.27.1016 | nmlx5_core | Mellanox Technologies MT28908 Family [ConnectX-6] |
| Client Host   | 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] |  |             |         |       |               |               |          |               |             |               |               |          |         |               |            |            |   |               |          |      |      |              |            |   |               |        |          |      |      |            |            |   |        |          |      |      |            |            |   |

Drivers, Vendors, and Models

|                      |               |          |      |      |            |            |   |
|----------------------|---------------|----------|------|------|------------|------------|---|
| <b>Client Host 3</b> | <b>vmnic0</b> | 100 Gbps | Full | 9000 | 20.28.4000 | nmlx5_core | Mellanox Technologies MT28908 Family [ConnectX-6] |
|                      | <b>vmnic1</b> | 100 Gbps | Full | 9000 | 20.28.4000 | nmlx5_core | Mellanox Technologies MT28908 Family [ConnectX-6] |
| <b>Client Host 4</b> | <b>vmnic0</b> | 100 Gbps | Full | 9000 | 20.27.1016 | nmlx5_core | Mellanox Technologies MT28908 Family [ConnectX-6] |
|                      | <b>vmnic1</b> | 100 Gbps | Full | 9000 | 20.27.1016 | nmlx5_core | Mellanox Technologies MT28908 Family [ConnectX-6] |

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

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

| Client Host          | Switch          | Port Group         | VLAN ID | Uplinks |
|----------------------|-----------------|--------------------|---------|---------|
| <b>Client Host 1</b> | <b>vSwitch0</b> | Management Network | 0       | vmnic0  |
|                      |                 | VM Network         | 0       | vmnic0  |
|                      | <b>vSwitch1</b> | vmotion            | 0       | vmnic1  |
| <b>Client Host 2</b> | <b>vSwitch0</b> | Management Network | 0       | vmnic0  |
|                      |                 | VM Network         | 0       | vmnic0  |
|                      | <b>vSwitch1</b> | vmotion            | 0       | vmnic1  |
| <b>Client Host 3</b> | <b>vSwitch0</b> | Management Network | 0       | vmnic0  |
|                      |                 | VM Network         | 0       | vmnic0  |
|                      | <b>vSwitch1</b> | vmotion            | 0       | vmnic1  |
| <b>Client Host 4</b> | <b>vSwitch0</b> | Management Network | 0       | vmnic0  |
|                      |                 | VM Network         | 0       | vmnic0  |
|                      | <b>vSwitch1</b> | 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   |
|----------------------|-------------|--------------------|------|--------------|------------|
| <b>Client Host 1</b> | <b>vmk0</b> | Management Network | 1500 | Default      | Management |
|                      | <b>vmk1</b> | vmotion            | 9000 | Default      | vMotion    |
| <b>Client Host 2</b> | <b>vmk0</b> | Management Network | 1500 | Default      | Management |
|                      | <b>vmk1</b> | vmotion            | 9000 | Default      | vMotion    |
| <b>Client Host 3</b> | <b>vmk0</b> | Management Network | 1500 | Default      | Management |
|                      | <b>vmk1</b> | vmotion            | 9000 | Default      | vMotion    |



|                      |  |             |                    |      |         |            |
|----------------------|--|-------------|--------------------|------|---------|------------|
|                      | <b>Client Host 4</b>   | <b>vmk0</b> | Management Network | 1500 | Default | Management |
|                      |  | <b>vmk1</b> | vmotion            | 9000 | Default | vMotion    |
| Client Storage Notes | See Client Notes Section                                     |             |                    |      |         |            |
| Other Hardware       | 2x 1200W Redundant power supplies<br>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 |
|--|--------|--------|---------|
| <b>Cpu.CreditAgePeriod</b>               | 1000   | 1000   | 3000    |
| <b>Cpu.HTWholeCoreThreshold</b>          | 0      | 0      | 800     |
| <b>Disk.IdleCredit</b>                   | 64     | 64     | 32      |
| <b>Disk.ReqCallThreshold</b>             | 1      | 1      | 8       |
| <b>Mem.CtlMaxPercent</b>                 | 0      | 0      | 65      |
| <b>Mem.ShareScanGHz</b>                  | 0      | 0      | 4       |
| <b>Numa.LTermFairnessInterval</b>        | 0      | 0      | 5       |
| <b>Numa.LocalityWeightActionAffinity</b> | 0      | 0      | 130     |
| <b>Numa.MigImbalanceThreshold</b>        | 57     | 57     | 10      |
| <b>Numa.PageMigEnable</b>                | 0      | 0      | 1       |
| <b>Numa.PreferHT</b>                     | 1      | 1      | 0       |
| <b>Numa.RebalancePeriod</b>              | 60000  | 60000  | 2000    |
| <b>Numa.SwapLoadEnable</b>               | 0      | 0      | 1       |

|                                      |             |             |          |
|--------------------------------------|-------------|-------------|----------|
| <b>Numa.SwapLocalityEnable</b>       | 0           | 0           | 1        |
| <b>Power.CpuPolicy</b>               | Performance | Performance | Balanced |
| <b>UserVars.SuppressShellWarning</b> | 1           | 1           | 0        |

SUT Host ESXi Module Options:

| <b>Module</b> | <b>Host 1</b> | <b>Host 2</b> | <b>Default</b> |
|---------------|---------------|---------------|----------------|
| <b>tcpip4</b> | ipv6=1        | ipv6=1        | ipv6=1         |

## Server Notes

- 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         |
| 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                |
| <b>VM</b>    | <b>vCPUs</b> | <b>Cores Per Socket</b> | <b>Memory (MB)</b> | <b>Sync Time</b> | <b>Logging</b> | <b>CD/DVD</b> | <b>CPU Res</b> | <b>CPU Limit</b> | <b>CPU Shares</b> | <b>Mem Res</b> | <b>Mem Limit</b> | <b>Mem Shares</b> | <b>Mem Pin</b> | <b>Mem 1G Page</b> | <b>Disk Shares</b> | <b>Datastore</b> | <b>Port Group</b> | <b>vHW Version</b> | <b>Tools Version</b> |
| 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                |
| <b>VM</b>    | <b>vCPUs</b> | <b>Cores Per Socket</b> | <b>Memory (MB)</b> | <b>Sync Time</b> | <b>Logging</b> | <b>CD/DVD</b> | <b>CPU Res</b> | <b>CPU Limit</b> | <b>CPU Shares</b> | <b>Mem Res</b> | <b>Mem Limit</b> | <b>Mem Shares</b> | <b>Mem Pin</b> | <b>Mem 1G Page</b> | <b>Disk Shares</b> | <b>Datastore</b> | <b>Port Group</b> | <b>vHW Version</b> | <b>Tools Version</b> |
| AuctionKA0   | 8            | 8                       | 32768              | TRUE             | FALSE          | Removed       | 0              | Unlimited        | high              | 0              | Unlimited        | normal            | FALSE          | FALSE              | normal             | tile0            | VM Network        | 17                 | 12325                |
| AuctionKA1   | 8            | 8                       | 32768              | TRUE             | FALSE          | Removed       | 0              | Unlimited        | high              | 0              | Unlimited        | normal            | FALSE          | FALSE              | normal             | tile1            | VM Network        | 17                 | 12325                |
| AuctionKA2   | 8            | 8                       | 32768              | TRUE             | FALSE          | Removed       | 0              | Unlimited        | high              | 0              | Unlimited        | normal            | FALSE          | FALSE              | normal             | tile2            | VM Network        | 17                 | 12325                |
| <b>VM</b>    | <b>vCPUs</b> | <b>Cores Per Socket</b> | <b>Memory (MB)</b> | <b>Sync Time</b> | <b>Logging</b> | <b>CD/DVD</b> | <b>CPU Res</b> | <b>CPU Limit</b> | <b>CPU Shares</b> | <b>Mem Res</b> | <b>Mem Limit</b> | <b>Mem Shares</b> | <b>Mem Pin</b> | <b>Mem 1G Page</b> | <b>Disk Shares</b> | <b>Datastore</b> | <b>Port Group</b> | <b>vHW Version</b> | <b>Tools Version</b> |
| AuctionKB0   | 8            | 8                       | 32768              | TRUE             | FALSE          | Removed       | 0              | Unlimited        | high              | 0              | Unlimited        | normal            | FALSE          | FALSE              | normal             | tile0            | VM Network        | 17                 | 12325                |
| AuctionKB1   | 8            | 8                       | 32768              | TRUE             | FALSE          | Removed       | 0              | Unlimited        | high              | 0              | Unlimited        | normal            | FALSE          | FALSE              | normal             | tile1            | VM Network        | 17                 | 12325                |
| AuctionKB2   | 8            | 8                       | 32768              | TRUE             | FALSE          | Removed       | 0              | Unlimited        | high              | 0              | Unlimited        | normal            | FALSE          | FALSE              | normal             | tile2            | VM Network        | 17                 | 12325                |
| <b>VM</b>    | <b>vCPUs</b> | <b>Cores Per Socket</b> | <b>Memory (MB)</b> | <b>Sync Time</b> | <b>Logging</b> | <b>CD/DVD</b> | <b>CPU Res</b> | <b>CPU Limit</b> | <b>CPU Shares</b> | <b>Mem Res</b> | <b>Mem Limit</b> | <b>Mem Shares</b> | <b>Mem Pin</b> | <b>Mem 1G Page</b> | <b>Disk Shares</b> | <b>Datastore</b> | <b>Port Group</b> | <b>vHW Version</b> | <b>Tools Version</b> |
| AuctionKC0   | 8            | 8                       | 32768              | TRUE             | FALSE          | Removed       | 0              | Unlimited        | high              | 0              | Unlimited        | normal            | FALSE          | FALSE              | normal             | tile0            | VM Network        | 17                 | 12325                |
| AuctionKC1   | 8            | 8                       | 32768              | TRUE             | FALSE          | Removed       | 0              | Unlimited        | high              | 0              | Unlimited        | normal            | FALSE          | FALSE              | normal             | tile1            | VM Network        | 17                 | 12325                |
| AuctionKC2   | 8            | 8                       | 32768              | TRUE             | FALSE          | Removed       | 0              | Unlimited        | high              | 0              | Unlimited        | normal            | FALSE          | FALSE              | normal             | tile2            | VM Network        | 17                 | 12325                |
| <b>VM</b>    | <b>vCPUs</b> | <b>Cores Per Socket</b> | <b>Memory (MB)</b> | <b>Sync Time</b> | <b>Logging</b> | <b>CD/DVD</b> | <b>CPU Res</b> | <b>CPU Limit</b> | <b>CPU Shares</b> | <b>Mem Res</b> | <b>Mem Limit</b> | <b>Mem Shares</b> | <b>Mem Pin</b> | <b>Mem 1G Page</b> | <b>Disk Shares</b> | <b>Datastore</b> | <b>Port Group</b> | <b>vHW Version</b> | <b>Tools Version</b> |
| AuctionKD0   | 8            | 8                       | 32768              | TRUE             | FALSE          | Removed       | 0              | Unlimited        | high              | 0              | Unlimited        | normal            | FALSE          | FALSE              | normal             | tile0            | VM Network        | 17                 | 12325                |
| AuctionKD1   | 8            | 8                       | 32768              | TRUE             | FALSE          | Removed       | 0              | Unlimited        | high              | 0              | Unlimited        | normal            | FALSE          | FALSE              | normal             | tile1            | VM Network        | 17                 | 12325                |
| AuctionKD2   | 8            | 8                       | 32768              | TRUE             | FALSE          | Removed       | 0              | Unlimited        | high              | 0              | Unlimited        | normal            | FALSE          | FALSE              | normal             | tile2            | VM Network        | 17                 | 12325                |
| <b>VM</b>    | <b>vCPUs</b> | <b>Cores Per Socket</b> | <b>Memory (MB)</b> | <b>Sync Time</b> | <b>Logging</b> | <b>CD/DVD</b> | <b>CPU Res</b> | <b>CPU Limit</b> | <b>CPU Shares</b> | <b>Mem Res</b> | <b>Mem Limit</b> | <b>Mem Shares</b> | <b>Mem Pin</b> | <b>Mem 1G Page</b> | <b>Disk Shares</b> | <b>Datastore</b> | <b>Port Group</b> | <b>vHW Version</b> | <b>Tools Version</b> |

|                   |              |                         |                    |                  |                |               |                |                  |                   |                |                  |                   |                |                    |                    |                  |                   |                    |                      |
|-------------------|--------------|-------------------------|--------------------|------------------|----------------|---------------|----------------|------------------|-------------------|----------------|------------------|-------------------|----------------|--------------------|--------------------|------------------|-------------------|--------------------|----------------------|
| AuctionWebA0      | 4            | 4                       | 12288              | TRUE             | FALSE          | Removed       | 0              | Unlimited        | normal            | 0              | Unlimited        | normal            | FALSE          | FALSE              | normal             | tile0            | VM Network        | 17                 | 12325                |
| AuctionWebA1      | 4            | 4                       | 12288              | TRUE             | FALSE          | Removed       | 0              | Unlimited        | normal            | 0              | Unlimited        | normal            | FALSE          | FALSE              | normal             | tile1            | VM Network        | 17                 | 12325                |
| AuctionWebA2      | 4            | 4                       | 12288              | TRUE             | FALSE          | Removed       | 0              | Unlimited        | normal            | 0              | Unlimited        | normal            | FALSE          | FALSE              | normal             | tile2            | VM Network        | 17                 | 12325                |
| <b>VM</b>         | <b>vCPUs</b> | <b>Cores Per Socket</b> | <b>Memory (MB)</b> | <b>Sync Time</b> | <b>Logging</b> | <b>CD/DVD</b> | <b>CPU Res</b> | <b>CPU Limit</b> | <b>CPU Shares</b> | <b>Mem Res</b> | <b>Mem Limit</b> | <b>Mem Shares</b> | <b>Mem Pin</b> | <b>Mem 1G Page</b> | <b>Disk Shares</b> | <b>Datastore</b> | <b>Port Group</b> | <b>vHW Version</b> | <b>Tools Version</b> |
| 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                |
| <b>VM</b>         | <b>vCPUs</b> | <b>Cores Per Socket</b> | <b>Memory (MB)</b> | <b>Sync Time</b> | <b>Logging</b> | <b>CD/DVD</b> | <b>CPU Res</b> | <b>CPU Limit</b> | <b>CPU Shares</b> | <b>Mem Res</b> | <b>Mem Limit</b> | <b>Mem Shares</b> | <b>Mem Pin</b> | <b>Mem 1G Page</b> | <b>Disk Shares</b> | <b>Datastore</b> | <b>Port Group</b> | <b>vHW Version</b> | <b>Tools Version</b> |
| 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                |
| <b>VM</b>         | <b>vCPUs</b> | <b>Cores Per Socket</b> | <b>Memory (MB)</b> | <b>Sync Time</b> | <b>Logging</b> | <b>CD/DVD</b> | <b>CPU Res</b> | <b>CPU Limit</b> | <b>CPU Shares</b> | <b>Mem Res</b> | <b>Mem Limit</b> | <b>Mem Shares</b> | <b>Mem Pin</b> | <b>Mem 1G Page</b> | <b>Disk Shares</b> | <b>Datastore</b> | <b>Port Group</b> | <b>vHW Version</b> | <b>Tools Version</b> |
| 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                |
| <b>VM</b>         | <b>vCPUs</b> | <b>Cores Per Socket</b> | <b>Memory (MB)</b> | <b>Sync Time</b> | <b>Logging</b> | <b>CD/DVD</b> | <b>CPU Res</b> | <b>CPU Limit</b> | <b>CPU Shares</b> | <b>Mem Res</b> | <b>Mem Limit</b> | <b>Mem Shares</b> | <b>Mem Pin</b> | <b>Mem 1G Page</b> | <b>Disk Shares</b> | <b>Datastore</b> | <b>Port Group</b> | <b>vHW Version</b> | <b>Tools Version</b> |
| 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                |
| <b>VM</b>         | <b>vCPUs</b> | <b>Cores Per Socket</b> | <b>Memory (MB)</b> | <b>Sync Time</b> | <b>Logging</b> | <b>CD/DVD</b> | <b>CPU Res</b> | <b>CPU Limit</b> | <b>CPU Shares</b> | <b>Mem Res</b> | <b>Mem Limit</b> | <b>Mem Shares</b> | <b>Mem Pin</b> | <b>Mem 1G Page</b> | <b>Disk Shares</b> | <b>Datastore</b> | <b>Port Group</b> | <b>vHW Version</b> | <b>Tools Version</b> |
| 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                |
| <b>VM</b>         | <b>vCPUs</b> | <b>Cores Per Socket</b> | <b>Memory (MB)</b> | <b>Sync Time</b> | <b>Logging</b> | <b>CD/DVD</b> | <b>CPU Res</b> | <b>CPU Limit</b> | <b>CPU Shares</b> | <b>Mem Res</b> | <b>Mem Limit</b> | <b>Mem Shares</b> | <b>Mem Pin</b> | <b>Mem 1G Page</b> | <b>Disk Shares</b> | <b>Datastore</b> | <b>Port Group</b> | <b>vHW Version</b> | <b>Tools Version</b> |

|              |              |                         |                    |                  |                |               |                |                  |                   |                |                  |                   |                |                    |                    |                  |                   |                    |                      |
|--------------|--------------|-------------------------|--------------------|------------------|----------------|---------------|----------------|------------------|-------------------|----------------|------------------|-------------------|----------------|--------------------|--------------------|------------------|-------------------|--------------------|----------------------|
| 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                |
| <b>VM</b>    | <b>vCPUs</b> | <b>Cores Per Socket</b> | <b>Memory (MB)</b> | <b>Sync Time</b> | <b>Logging</b> | <b>CD/DVD</b> | <b>CPU Res</b> | <b>CPU Limit</b> | <b>CPU Shares</b> | <b>Mem Res</b> | <b>Mem Limit</b> | <b>Mem Shares</b> | <b>Mem Pin</b> | <b>Mem 1G Page</b> | <b>Disk Shares</b> | <b>Datastore</b> | <b>Port Group</b> | <b>vHW Version</b> | <b>Tools Version</b> |
| 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                |
| <b>VM</b>    | <b>vCPUs</b> | <b>Cores Per Socket</b> | <b>Memory (MB)</b> | <b>Sync Time</b> | <b>Logging</b> | <b>CD/DVD</b> | <b>CPU Res</b> | <b>CPU Limit</b> | <b>CPU Shares</b> | <b>Mem Res</b> | <b>Mem Limit</b> | <b>Mem Shares</b> | <b>Mem Pin</b> | <b>Mem 1G Page</b> | <b>Disk Shares</b> | <b>Datastore</b> | <b>Port Group</b> | <b>vHW Version</b> | <b>Tools Version</b> |
| 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                |
| <b>VM</b>    | <b>vCPUs</b> | <b>Cores Per Socket</b> | <b>Memory (MB)</b> | <b>Sync Time</b> | <b>Logging</b> | <b>CD/DVD</b> | <b>CPU Res</b> | <b>CPU Limit</b> | <b>CPU Shares</b> | <b>Mem Res</b> | <b>Mem Limit</b> | <b>Mem Shares</b> | <b>Mem Pin</b> | <b>Mem 1G Page</b> | <b>Disk Shares</b> | <b>Datastore</b> | <b>Port Group</b> | <b>vHW Version</b> | <b>Tools Version</b> |
| 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                |
| <b>VM</b>    | <b>vCPUs</b> | <b>Cores Per Socket</b> | <b>Memory (MB)</b> | <b>Sync Time</b> | <b>Logging</b> | <b>CD/DVD</b> | <b>CPU Res</b> | <b>CPU Limit</b> | <b>CPU Shares</b> | <b>Mem Res</b> | <b>Mem Limit</b> | <b>Mem Shares</b> | <b>Mem Pin</b> | <b>Mem 1G Page</b> | <b>Disk Shares</b> | <b>Datastore</b> | <b>Port Group</b> | <b>vHW Version</b> | <b>Tools Version</b> |
| 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                |
| <b>VM</b>    | <b>vCPUs</b> | <b>Cores Per Socket</b> | <b>Memory (MB)</b> | <b>Sync Time</b> | <b>Logging</b> | <b>CD/DVD</b> | <b>CPU Res</b> | <b>CPU Limit</b> | <b>CPU Shares</b> | <b>Mem Res</b> | <b>Mem Limit</b> | <b>Mem Shares</b> | <b>Mem Pin</b> | <b>Mem 1G Page</b> | <b>Disk Shares</b> | <b>Datastore</b> | <b>Port Group</b> | <b>vHW Version</b> | <b>Tools Version</b> |
| 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                |
| <b>VM</b>    | <b>vCPUs</b> | <b>Cores Per Socket</b> | <b>Memory (MB)</b> | <b>Sync Time</b> | <b>Logging</b> | <b>CD/DVD</b> | <b>CPU Res</b> | <b>CPU Limit</b> | <b>CPU Shares</b> | <b>Mem Res</b> | <b>Mem Limit</b> | <b>Mem Shares</b> | <b>Mem Pin</b> | <b>Mem 1G Page</b> | <b>Disk Shares</b> | <b>Datastore</b> | <b>Port Group</b> | <b>vHW Version</b> | <b>Tools Version</b> |

|                  |              |                         |                    |                  |                |               |                |                  |                   |                |                  |                   |                |                    |                    |                  |                   |                    |                      |
|------------------|--------------|-------------------------|--------------------|------------------|----------------|---------------|----------------|------------------|-------------------|----------------|------------------|-------------------|----------------|--------------------|--------------------|------------------|-------------------|--------------------|----------------------|
| 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                |
| <b>VM</b>        | <b>vCPUs</b> | <b>Cores Per Socket</b> | <b>Memory (MB)</b> | <b>Sync Time</b> | <b>Logging</b> | <b>CD/DVD</b> | <b>CPU Res</b> | <b>CPU Limit</b> | <b>CPU Shares</b> | <b>Mem Res</b> | <b>Mem Limit</b> | <b>Mem Shares</b> | <b>Mem Pin</b> | <b>Mem 1G Page</b> | <b>Disk Shares</b> | <b>Datastore</b> | <b>Port Group</b> | <b>vHW Version</b> | <b>Tools Version</b> |
| 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                |
| <b>VM</b>        | <b>vCPUs</b> | <b>Cores Per Socket</b> | <b>Memory (MB)</b> | <b>Sync Time</b> | <b>Logging</b> | <b>CD/DVD</b> | <b>CPU Res</b> | <b>CPU Limit</b> | <b>CPU Shares</b> | <b>Mem Res</b> | <b>Mem Limit</b> | <b>Mem Shares</b> | <b>Mem Pin</b> | <b>Mem 1G Page</b> | <b>Disk Shares</b> | <b>Datastore</b> | <b>Port Group</b> | <b>vHW Version</b> | <b>Tools Version</b> |
| 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                |
| <b>VM</b>        | <b>vCPUs</b> | <b>Cores Per Socket</b> | <b>Memory (MB)</b> | <b>Sync Time</b> | <b>Logging</b> | <b>CD/DVD</b> | <b>CPU Res</b> | <b>CPU Limit</b> | <b>CPU Shares</b> | <b>Mem Res</b> | <b>Mem Limit</b> | <b>Mem Shares</b> | <b>Mem Pin</b> | <b>Mem 1G Page</b> | <b>Disk Shares</b> | <b>Datastore</b> | <b>Port Group</b> | <b>vHW Version</b> | <b>Tools Version</b> |
| 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         |
| 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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