
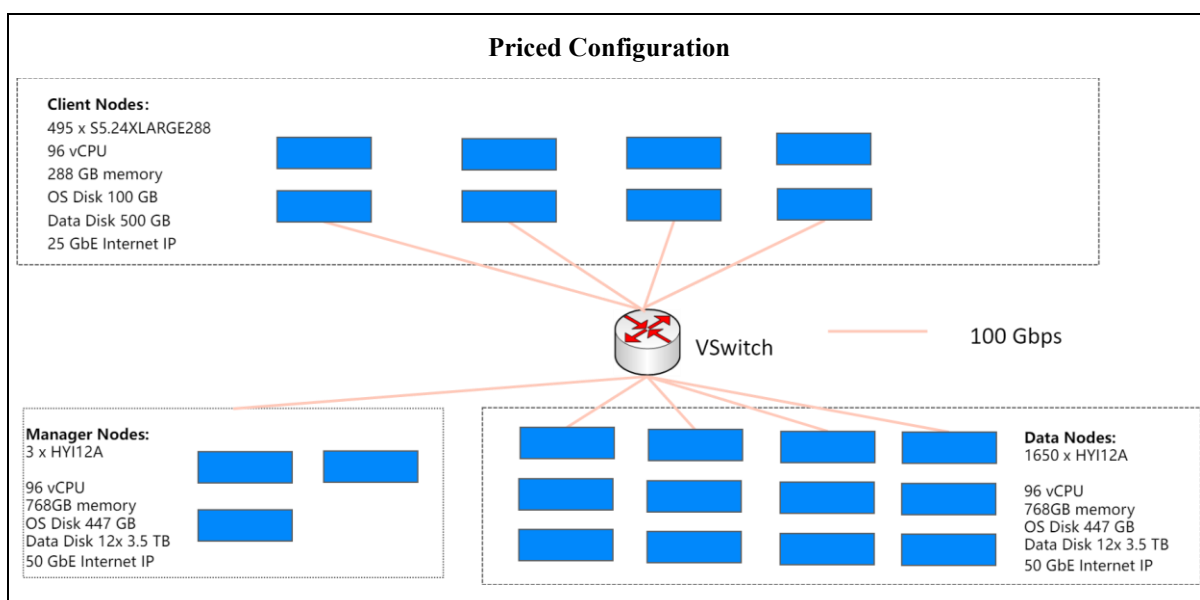



|   |  |   |  |   |  |                          |                        |
|---|--|---|--|---|--|--------------------------|------------------------|
| <br><b>Tencent Cloud</b> | <b>Tencent Database Dedicated Cluster</b><br><b>(with 1650 TDSQL Data Nodes)</b> |   |  | <b>TPC-C 5.11.0</b><br><b>TPC-Pricing 2.8.0</b> |  |                          |                        |
|   |  |   |  | <b>Report Date</b><br><b>March 28, 2023</b>     |  |                          |                        |
| <b>Total System Cost</b>  |  | <b>TPC-C Throughput</b>   |  | <b>Price/Performance</b>                        |  | <b>Availability Date</b> |                        |
| 1,031,746,953 CNY   |  | 814,854,791 tpmC  |  | 1.27 CNY/tpmC                                   |  | June 18, 2023            |                        |
| <b>Database Server Processors/Cores/Threads</b>   |  | <b>Database Manager</b>   |  | <b>Operating System</b>                         |  | <b>Other Software</b>    | <b>Number of Users</b> |
| Intel Xeon Platinum 8255C (2.50GHz)<br>3,300/79,200/158,400   |  | Tencent TDSQL v10.3 Enterprise Pro Edition with Partitioning and Physical Replication |  | Tencent tlinux 2.2                              |  | Nginx 1.16.1             | 640,035,000            |



| System Component          | 1,650 Data Nodes |                                     | 3 Manager Nodes |                                     | 495 Client Nodes |                                      | Total                 |
|---------------------------|------------------|-------------------------------------|-----------------|-------------------------------------|------------------|--------------------------------------|-----------------------|
| Processors /Cores/Threads | 2/48/96          | Intel Xeon Platinum 8255C (2.50GHz) | 2/48/96         | Intel Xeon Platinum 8255C (2.50GHz) | 2/48/96          | Intel Xeon Platinum 8361HC (2.60GHz) | 4,296/103,104/206,208 |
| Memory                    | 1                | 768 GB                              | 1               | 768 GB                              | 1                | 288 GB                               | 1,412,064 GB          |
| OS Disk                   | 1                | 447 GB                              | 1               | 447 GB                              | 1                | 100 GB                               | 788,391 GB            |
| Data Disk                 | 1                | 12x 3.5 TB NVMe SSD                 | 1               | 12x 3.5 TB NVMe SSD                 | 1                | 500 GB                               | 69,673,500 GB         |
| Total Disk Storage        |                  | 70,037,550 GB                       |                 | 127,341 GB                          |                  | 297,000 GB                           | 70,461,891 GB         |

| <br>Tencent<br>Cloud | <b>Tencent Database Dedicated Cluster</b><br><b>(with 1650 TDSQL Data Nodes)</b> |     |          |              |                  | TPC-C 5.11.0<br>TPC-Pricing 2.8.0 |  |
|---|--|-----|----------|--------------|------------------|-----------------------------------|--|
|   |  |     |          |              |                  | Report Date<br>March 28, 2023     |  |
| Description   | Part Number  | Src | Discount | Unit Price   | Qty              | Ext.Price (CNY)                   |  |
| <b>Tencent Database Dedicated Cluster</b>   |  |     |          |              |                  |                                   |  |
| <b>HY112A (3-year-price)</b>  |  |     |          | 1,143,072.00 | 1,653            | 1,889,498,016.00                  |  |
| - Intel(R) Xeon(R) Platinum 8255C CPU @ 2.50GHz x2 (96 vCPU)  | included   | 1   |          | 0.00         | 1,653            |                                   |  |
| - Memory (768G)   | included   | 1   |          | 0.00         | 1,653            |                                   |  |
| - System Disk (447GB)   | included   | 1   |          | 0.00         | 1,653            |                                   |  |
| - NVMe SSD Disk (12x 3.5 TB)  | included   | 1   |          | 0.00         | 1,653            |                                   |  |
| - Tencent tlinux 2.2  | included   | 1   |          | 0.00         | 1,653            |                                   |  |
| - Tencent TDSQL v10.3 Enterprise Pro Edition with Partitioning and Physical Replication               | included   | 1   |          | 0.00         | 1,653            |                                   |  |
| - Mellanox Technologies MT27710 Family [ConnectX-4 Lx] x2   | included   | 1   |          | 0.00         | 1,653            |                                   |  |
| - Tencent Cloud Online Support Service 7x24 for 3 years   | included   | 1   |          | 0.00         | 1,653            |                                   |  |
|   |  |     |          |              | <b>Sub-Total</b> | <b>1,889,498,016.00</b>           |  |
| <b>Tencent Cloud Virtual Machine</b>  |  |     |          |              |                  |                                   |  |
| <b>S5.24XLARGE288 (3-year-price)</b>  |  |     |          | 397,440.00   | 495              | 196,732,800.00                    |  |
| - Intel(R) Xeon(R) Platinum 8361HC CPU @ 2.60GHz x2 (96 vCPU)   | included   | 1   |          | 0.00         | 495              |                                   |  |
| - Memory (288G)   | included   | 1   |          | 0.00         | 495              |                                   |  |
| - System Disk (100GB)   | included   | 1   |          | 0.00         | 495              |                                   |  |
| - Data Disk (500GB)   | included   | 1   |          | 0.00         | 495              |                                   |  |
| - Tencent tlinux 2.6  | included   | 1   |          | 0.00         | 495              |                                   |  |
| - Mellanox MCX562A-ACAI   | included   | 1   |          | 0.00         | 495              |                                   |  |
| - Tencent Cloud Online Support Service 7x24 for 3 years   | included   | 1   |          | 0.00         | 495              |                                   |  |
|   |  |     |          |              | <b>Sub-Total</b> | <b>196,732,800.00</b>             |  |
| <b>Other Services</b>   |  |     |          |              |                  |                                   |  |
| Professional Edition Support Service for 3 years 7x24hrs  |  | 2   |          | 6,300,000.00 | 1                | 6,300,000.00                      |  |
| - Nginx support included  | included   | 2   |          | 0.00         | 1                |                                   |  |
|   |  |     |          |              | <b>Sub-Total</b> | <b>6,300,000.00</b>               |  |

| <b>Other Components</b>   |            |   |     |             |                                    |                          |
|---|------------|---|-----|-------------|------------------------------------|--------------------------|
| ThinkPad X1 Carbon 2022 Laptop<br>(includes 2 spares)   | 21CBA003CD | 3 |     | 12,499.00   | 3                                  | 37,497.00                |
|   |            |   |     |             | <b>Sub-Total</b>                   | <b>37,497.00</b>         |
| <b>Discount</b>   |            |   |     |             |                                    |                          |
| HYI12A (Tencent Database<br>Dedicated Cluster)  |            | 1 | 50% | -571,536.00 | 1,653                              | -944,749,008.00          |
| S5.24XLARGE288(CVM)   |            | 1 | 59% | -234,489.60 | 495                                | -116,072,352.00          |
|   |            |   |     |             | <b>Sub-Total</b>                   | <b>-1,060,821,360.00</b> |
| <b>Src</b>  |            |   |     |             | <b>Total</b>                       | <b>1,031,746,953.00</b>  |
| 1. Tencent Cloud  |            |   |     |             | <b>3-Y Cost of Ownership (CNY)</b> | <b>1,031,746,953.00</b>  |
| 2. TengCloud Future   |            |   |     |             | <b>tpmC</b>                        | <b>814,854,791</b>       |
| 3. lenovo.com.cn  |            |   |     |             | <b>CNY/tpmC</b>                    | <b>1.27</b>              |
| <b>Audited by Doug Johnson of InfoSizing.</b>   |            |   |     |             |                                    |                          |
| <i>Prices used in TPC Benchmarks reflect the actual prices a customer would pay for a one-time purchase of the stated components. Individually negotiated discounts are not permitted. Special prices based on assumptions about past or future purchases are not permitted. All discounts reflect standard pricing policies for the listed components. For complete details, see the pricing section of the TPC benchmark specifications. If you find that stated prices are not available according to these terms, please inform the TPC at <a href="mailto:pricing@tpc.org">pricing@tpc.org</a>. Thank you.</i> |            |   |     |             |                                    |                          |



**Tencent Database Dedicated Cluster  
(with 1650 TDSQL Data Nodes)**

TPC-C 5.11.0  
TPC-Pricing 2.8.0

**Report Date  
March 28, 2023**

**Numerical Quantities:**

|  |                         |
|--|-------------------------|
| MQTH (computed Maximum Qualified Throughput)                         | 814,854,791 tpmC        |
| Ramp-up Time   | 20 min                  |
| Measurement Interval (MI)  | 480 min                 |
| Checkpoints in MI per Node (Min/Avg/Max)                             | 27,688/27,761.46/53,040 |
| Maximum Checkpoint Interval (all nodes)                              | 10.620 sec              |
| Number of transactions (all types) completed in Measurement Interval | 869,951,950,220         |

| <b>Response Time (Second)</b> | <b>Min</b> | <b>Avg</b> | <b>90th</b> | <b>Max</b> |
|-------------------------------|------------|------------|-------------|------------|
| New-Order                     | 0.101      | 0.107      | 0.114       | 13.610     |
| Payment                       | 0.101      | 0.104      | 0.106       | 12.329     |
| Order-Status                  | 0.101      | 0.104      | 0.104       | 11.328     |
| Delivery                      | 0.101      | 0.102      | 0.102       | 3.480      |
| Stock-Level                   | 0.102      | 0.109      | 0.116       | 13.825     |
| Delivery (Deferred)           | 0.005      | 0.009      | 0.012       | 10.653     |
| Menu                          | 0.101      | 0.102      | 0.103       | 3.573      |
| Emulated Display Delay:       | 0.100s     |            |             |            |

| <b>Transaction Mix</b> | <b>Number</b>   | <b>Percent</b> |
|------------------------|-----------------|----------------|
| New-Order              | 391,130,299,744 | 44.960%        |
| Payment                | 374,166,209,676 | 43.010%        |
| Order-Status           | 34,885,214,326  | 4.010%         |
| Delivery               | 34,885,339,177  | 4.010%         |
| Stock-Level            | 34,884,887,297  | 4.010%         |

| <b>Keying Times (Second)</b> | <b>Min</b> | <b>Avg</b> | <b>Max</b> |
|------------------------------|------------|------------|------------|
| New-Order                    | 18.001     | 18.001     | 18.106     |
| Payment                      | 3.001      | 3.001      | 3.108      |
| Order-Status                 | 2.001      | 2.001      | 2.098      |
| Delivery                     | 2.001      | 2.001      | 2.096      |
| Stock-Level                  | 2.001      | 2.001      | 2.096      |

| <b>Think Times (Second)</b> | <b>Min</b> | <b>Avg</b> | <b>Max</b> |
|-----------------------------|------------|------------|------------|
| New-Order                   | 0.002      | 12.001     | 120.048    |
| Payment                     | 0.002      | 12.001     | 120.046    |
| Order-Status                | 0.002      | 10.001     | 100.031    |
| Delivery                    | 0.002      | 5.001      | 50.037     |
| Stock-Level                 | 0.002      | 5.001      | 50.028     |