



Dell PowerEdge R750 server featuring a modern 100Gb Broadcom 57508 NIC achieved higher bandwidth in iPerf tests

Compared to enabling the same bandwidth capability using four 25Gb NICs

About our testing



We used the synthetic iPerf test tool to compare two solutions:

- A Dell[™] PowerEdge[™] R750 server with Broadcom[®] 57508[™] Dual Port 100Gb network interface card
- The same PowerEdge R750 server with four 25Gb NICs (Note: We used two dual-port NICs to achieve our 4 x 25Gb NIC configuration.)

We found that the PowerEdge R750 with Broadcom 57508 NIC offered stronger and more consistent bandwidth performance across all numbers of instances (TCP streams) we tested. For example, at four TCP streams, the Broadcom 57508 solution achieved an average of 99.1 Gb/s during the test, while the four-NIC solution achieved an average of just 65.6 Gb/s.

These results show the potential benefits of selecting a server with a single 100Gb NIC to better optimize bandwidth performance.

About PT

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Key claims



Up to 2.3x the Gbps

at two instances, over an average of 15 runs

100% bandwidth consistency

at four TCP streams, compared to the four-NIC solution, which achieved maximum throughput twice over 15 runs

with a Dell PowerEdge R750 server with a Broadcom 57508 Dual Port 100Gb network interface card versus the same PowerEdge R750 server with four 25Gb NICs



at two instances, over an average of 15 runs

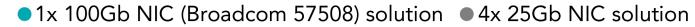
Benefits

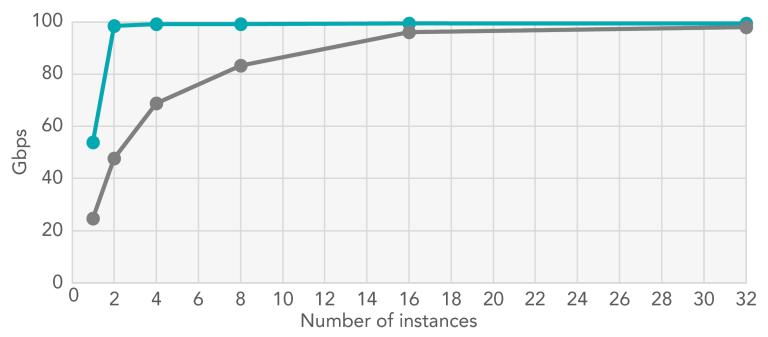
 Maximize bandwidth usage for stronger application performance

Detailed test results



Average throughput





100% bandwidth consistency

at four TCP streams, compared to the four-NIC solution, which achieved maximum throughput twice over 15 runs

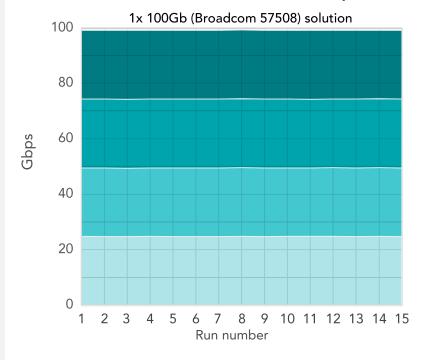
Benefits

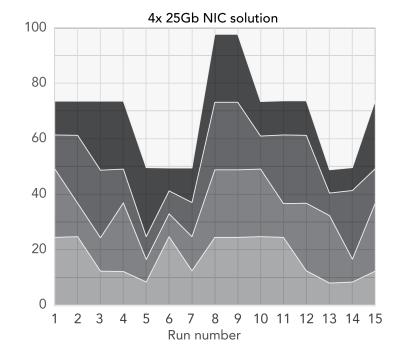
Consistent, fast performance for applications

Detailed test results



iPerf performance for 4 instances









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Read the report at https://facts.pt/6rJx2IK

