



Benchmarking SQL Server BlackBox Hosting vs Azure

WHY AND HOW WE TESTED

Organisations are more data driven than ever. When it comes to analysing data in the cloud, speed, performance and cost are all major factors when choosing your cloud provider.

We used the publicly available TPROC-C HammerDB benchmark tool to conduct performance analysis for Microsoft SQL workloads on a Microsoft Azure Standard F4s v2 VM against a comparable BlackBox Hosting Standard Single Server.

	SPECIFICATIONS	PRICING
 Microsoft Azure Standard F4s v2 VM	CPU: 4 vCPU - Intel(R) Xeon(R) Platinum 8272CL Memory: 8GB OS: Windows Server 2019 Storage: 128 GB Premium SSD LRS SQL: SQL Server 2019 Standard	£302.89 per month pay as you go, includes standard support - additional charges for bandwidth and storage transaction data 1 year cost: £3,634.68
 BLACKBOX Standard Single Server	CPU: 4 vCPU - Intel(R) Xeon(R) Gold 6258R Memory: 8GB OS: Windows Server 2019 Storage: 150 GB 3PAR Backed SSD SQL: SQL Server 2019 Standard	Priced at £111.86 per month with flexible contract terms - includes support, unlimited bandwidth and storage transaction data 1 year cost: £1,342.32

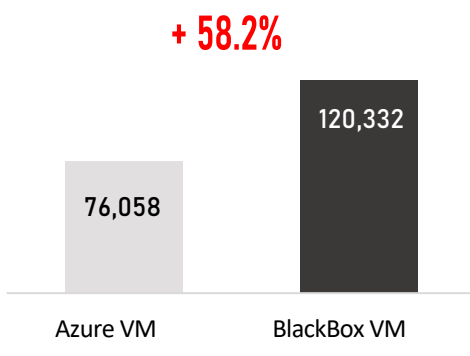
TEST PARAMETERS AND RESULTS

We created two new virtual machines with only HammerDB and SQL Server 2019 Standard installed. We tested using 4 warehouses and 16 virtual users.

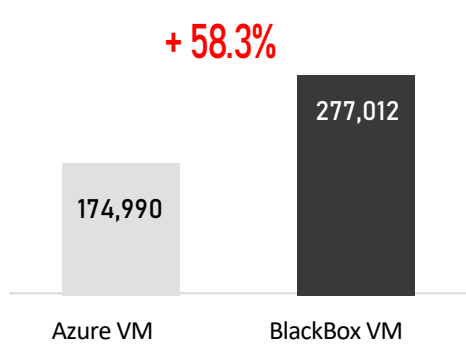
The BlackBox Hosting standard VM achieved a higher transactional throughput than its Azure counterpart. Microsoft Azure's VM achieved 76,058 NOPM (new orders per minute) and 174,990 TPM (transactions per minute) compared to our BlackBox VM achieving 120,332 NOPM and 277,012 TPM.

By using BlackBox Hosting, you could save over 60% in costs as well as benefitting from almost 60% increased performance to support your data needs.

NEW ORDERS PER MINUTE



TRANSACTIONS PER MINUTE



COST ANALYSIS

1-year comparisons show a massive £2,292.36 difference making Azure **170%** more expensive compared to BlackBox

