


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 2022 Storage: 128 GB Premium SSD LRS SQL: SQL Server 2022 Standard	£205.22 per month pay as you go, includes standard support - additional charges for bandwidth and storage transaction data 1 year cost: £2,462.64
 BLACKBOX HOSTING Standard Single Server	CPU: 4 vCPU - Intel(R) Xeon(R) Gold 6258R Memory: 8GB OS: Windows Server 2022 Storage: 150GB Pure Storage NVMe SSD SQL: SQL Server 2022 Standard	£116.02 per month with flexible contract terms - includes support, unlimited bandwidth and storage transaction data 1 year cost: £1,392.24

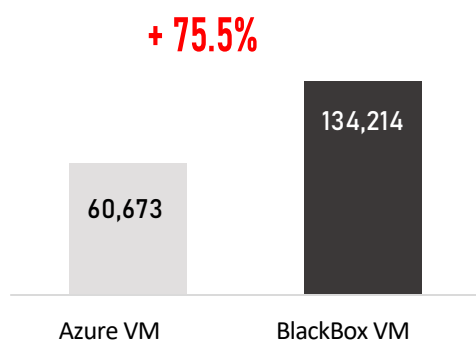
TEST PARAMETERS AND RESULTS

We created two new virtual machines with only HammerDB and SQL Server 2022 Standard installed. We tested using 4 warehouses and 16 virtual users.

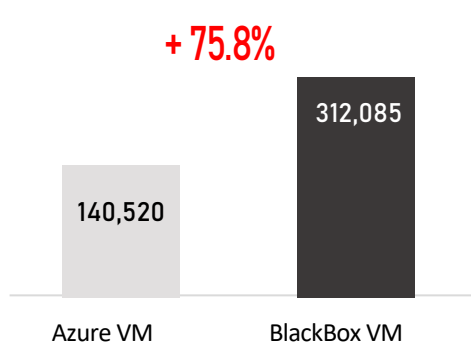
The BlackBox Hosting standard VM achieved a higher transactional throughput than its Azure counterpart. Microsoft Azure's VM achieved 60,673 NOPM (new orders per minute) and 140,520 TPM (transactions per minute) compared to our BlackBox VM achieving 134,214 NOPM and 312,085 TPM.

By using BlackBox Hosting, you could halve your costs as well as benefitting from over 75% increased performance to support your data needs.

NEW ORDERS PER MINUTE



TRANSACTIONS PER MINUTE



COST ANALYSIS

1-year comparisons show a massive £1,070.40 difference making Azure **76%** more expensive compared to BlackBox

