Microsoft

SQL Server on Azure Virtual Machines
Up to 3.6x faster at 84% lower cost than SQL Server on AWS

GIGAOM

Azure vs. AWS performance study for SQL Server VMs
GigaOm recently wrote several studies where they tested throughput performance between SQL Server on Azure VMs and SQL Server on AWS EC2. The studies evaluated SQL Server on Azure and on AWS across three benchmarks: **Windows OS, Linux OS, and high-end SSD storage**. Performance is derived from the TPC-E transaction per second (TPS) metric.
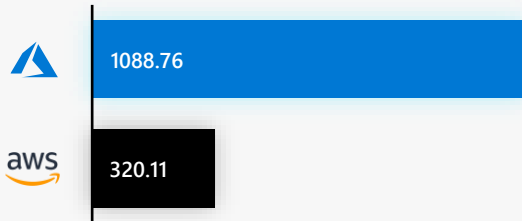
The results

Performance
Higher is better

Price/performance
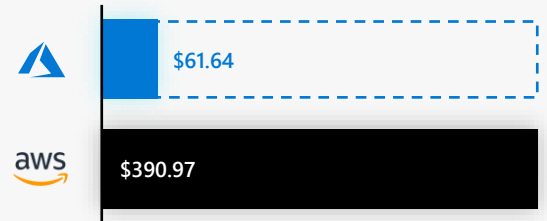**Lower is better**

Latest GigaOm study

Windows OS

Transactions per second (TPS)

Azure	1088.76
aws	320.11

3.6x faster on Azure

*Includes Azure Hybrid Benefit and Reserved Instances with three-year commitment.

3 year pricing / TPS*

Azure	$61.64
aws	$390.97

Costs **84% less** than AWS

Linux OS

Red Hat
Enterprise Linux

Transactions per second (TPS)

Azure	878.03
aws	293.50

3.0x faster on Azure

3 year pricing / TPS

Azure	$865.79
aws	$2,648.00
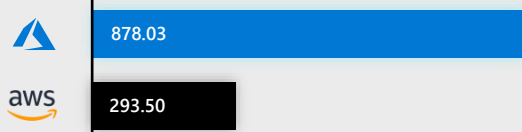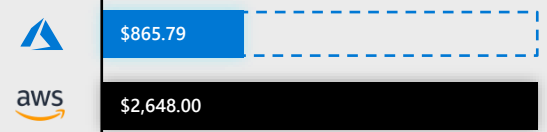
Costs **67% less** than AWS

High-end storage

Azure VMs with Ultra Disk and AWS VMs with i01 Volumes

Transactions per second (TPS)

Azure	1570.41
aws	1071.33
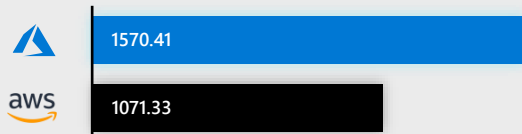
1.5X faster on Azure

3 year pricing / TPS

Azure	$179.52
aws	$264.90
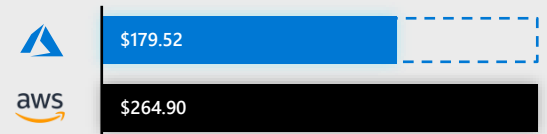
Costs **32% less** than AWS

Azure leads AWS across key performance and price/performance benchmarks

5 more reasons to pick Azure over AWS for SQL Server workloads

Free support for SQL Server 2008/R2
Get free extended security updates for SQL Server 2008/R2 images when migrating to Azure IaaS for three years.

Free Disaster Recovery secondary in Azure
On-premises SQL Server with Software Assurance now comes with free SQL license when adding an Azure Disaster Recovery secondary

Automatic security updates
Ease of maintenance with automatic application of the latest security patches, only on Azure.

Pre-configured cloud backup
Restore to a specific point in time with an automatically-generated Azure backup.

Only cloud with Developer edition
Access the fully-featured free SQL Server Developer edition, only pre-configured on Azure.

Allscripts leveraged existing licensing to seamlessly migrate to the cloud with Azure Virtual Machines

Challenge
Need to consolidate data after acquisitions

Solution
Migration of 600 SQL Server VMs to Azure with existing Windows and SQL Licenses

Outcome
Licensing savings up to 82% with Azure Hybrid Benefit

" By moving our acquired applications to Azure, we were able to get them up, running, and adding value to the business in three weeks versus the three months needed to requisition servers and storage. "

Peter Tomlinson
Director of IS, Technology Operations

Allscripts®

Choose Azure when migrating SQL Server to the cloud

➔ Read the complete performance studies:
SQL Transaction Processing, Price-Performance Testing (Feb. 2020)
SQL Transaction Processing, Price-Performance Testing (Oct. 2019)

➔ Leverage your on-premises licenses with Azure Hybrid Benefit

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