

New testing: Azure SQL Database Hyperscale beats Amazon Aurora PostgreSQL in third-party assessment

Principled Technologies benchmarks show up to 52% higher performance and 51% better performance per dollar at 16 vCores

REDMOND, WA, UNITED STATES, September 30, 2026 / EINPresswire.com/ -- Choosing a managed database service increasingly comes down to a balance of performance and cost. New hands-on testing from Principled Technologies, commissioned by Microsoft, compared Azure SQL Database Hyperscale to Amazon Aurora PostgreSQL and found that Azure SQL Database Hyperscale delivered stronger performance and better value across the majority of configurations tested.

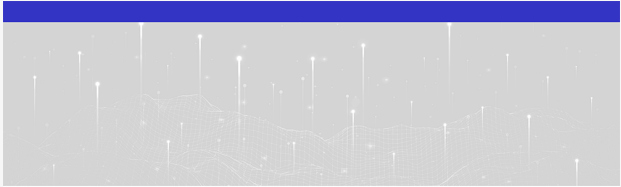
Using the open-source HammerDB benchmarking tool and its TPROC-C workload, Principled Technologies evaluated both services at 16 and 32 vCores across a range of concurrency loads, measuring both raw transaction throughput and performance per dollar spent.

Key takeaways

- At 16 vCores, Azure SQL Database Hyperscale delivered up to 52 percent higher performance than Amazon Aurora PostgreSQL.
- At that same configuration, Azure SQL Database Hyperscale offered up to 51 percent better



Principled Technologies®



 **Scale your most critical workloads with Azure SQL Database Hyperscale**

In our tests, Azure SQL Database Hyperscale delivered up to 52% higher performance and 51% better performance per dollar than Amazon Aurora PostgreSQL.

Highlights of this report

 Up to 52% better performance vs. Amazon Aurora with 16 vCore Azure SQL Database Hyperscale	 Up to 51% better performance/dollar vs. Amazon Aurora with 16 vCore Azure SQL Database Hyperscale	 Get better performance as you grow 16 vCore Azure SQL Database Hyperscale outperformed Amazon Aurora PostgreSQL at different concurrency loads
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Report: Scale your most critical workloads with Azure SQL Database Hyperscale

performance per dollar.

- Azure SQL Database Hyperscale outperformed Amazon Aurora PostgreSQL at nearly all concurrency loads tested at 16 vCores, showing that its advantage holds as demand grows.
- At 32 vCores, Azure SQL Database Hyperscale matched or exceeded Amazon Aurora PostgreSQL across all loads tested, with up to 12 percent better performance and performance per dollar.

“Across two vCore counts and multiple concurrency loads, Azure SQL Database Hyperscale offered similar or stronger database performance than Amazon Aurora PostgreSQL, most notably at 16 vCores, where it delivered up to 52 percent more performance and 51 percent better performance per dollar,” the Principled Technologies report states.

The testing used a 25,000-warehouse TPROC-C schema and an I/O-intensive workload to fully exercise each service's storage subsystem, an approach designed to reflect how heavily used transactional databases behave in production. PT tested each configuration three times, reporting the median result, producing a consistent, repeatable comparison between the two managed database services.

As the report notes, “the service you select should provide easy scaling alongside a balance of performance and value that can help your organization meet business goals without burning through your budgeted cloud costs.”

The full report, [Scale your most critical workloads with Azure SQL Database Hyperscale](#), includes detailed performance and performance-per-dollar results at every vCore and concurrency load tested, along with the complete testing methodology. Readers can also review the science behind the report for step-by-step configuration and testing details.

About Principled Technologies, Inc.

Principled Technologies, Inc. is the leading provider of fact-based marketing and competitive analysis backed by transparent methodologies.

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