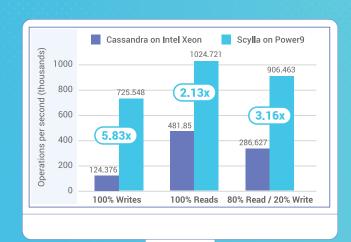


The Real-Time Big Data Database on **IBM Power Systems**

Scylla fully leverages the advantages of the IBM Power System multi-core architecture to deliver scale-up performance of 1,000,000 IOPS per node and 99% latency under 1 millisecond.



IBM benchmark shows throughput of Scylla running on IBM Power9 versus Cassandra running on Intel Xeon SP.

Scylla is trusted by internet and traditional enterprises like IBM, AppNexus, Ola Cabs, Investing.com, mParticle, and many others.





SAMSUNG SDS





THE BENEFITS OF SCYLLA



10x Higher Throughput. Written in C++ to maximize hardware utilization and achieve up to 1,000,000 read/write operations per node.



Low and Consistent Latency. Lockless implementation and an independent memory management stack remove the inefficient reliance on JVM or Linux page cache and deliver consistently low latency.



Highly Scalable. Auto-sharding, homogeneous servers, and native multi-datacenter implementation allow seamless linear scaling without compromising on application downtime or performance.



Optimum Total Cost of Ownership. Scylla maximizes utilization of IBM Power-including CPU, memory, and disk-and network interfaces with linear scale-up out of the box.



Always-On Availability. Automatic failover and replication across multiple nodes and data centers provide reliable fault tolerance.



Compaction, Streaming, and Repair Solved. Scylla's auto-tuning capabilities include an array of dynamic scheduling algorithms that minimize database operation latency jitter and reduce compaction streaming and repair time.



Community Backed. Scylla has been open sourced since day one and is backed by a growing community of contributors, and Scylla leverages the big data ecosystem around Cassandra, Spark, Janus Graph, etc.

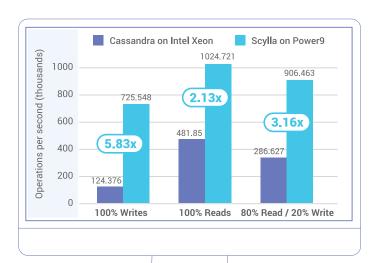


Easy to Use. Apache Cassandra's wire protocol, a rich polyglot of drivers, and integration with Spark, Presto, and Graph tools mean resourceefficient and performance-effective coding.

SCYLLA ON IBM POWER9 PERFORMANCE EXCEEDS CASSANDRA ON INTEL XEON SP

Recent performance benchmarks by IBM show...

- Scylla on IBM POWER9 achieves nearly 6X the write throughput of Cassandra on Intel Xeon SP
- Scylla on IBM POWER9 reaches over 2X the read throughput of Cassandra on Intel Xeon SP
- Scylla on IBM POWER9 delivers over 3X the throughput of Cassandra on Intel Xeon SP for 80% reads, 20% writes.





TAKING BIG DATA DEPLOYMENTS FROM GOOD TO GREAT



Cassandra



ScyllaDB

High Availability	√ Multi-region and fault tolerant	✓ Multi-region and fault tolerant
Scale Out	Homogeneous nodes scale to hundreds of nodes per cluster	Homogeneous nodes scale to hundreds of nodes per cluster. Additionally, Scylla scales up with the number of cores in our server
Scale Up	Unpredictable and unbounded latency, mainly the result of the JVM's GC	C++, shared-nothing and lockless novel design allows < 1 millisecond tail latency
Predictable Low Latency	Limited per-node performance. Cannot fully exploit the disk, memory and CPUs	Asynchronous core engine with shard-per- core architecture allows perfect scale-up
Low Management	Intricate tuning, endless compactions and GC storms makes it hard to maintain	Auto-tuning, isolation and prioritized workloads minimize operational overhead

GET STARTED TODAY

Spin up a live Scylla cluster and experience extreme performance first-hand at **scylladb.com/test-drive**.

For more information, please visit **scylladb.com**.

We spent a lot of time on the other databases—mainly Hbase and Cassandra—to try to make them more comparable to Scylla. But of course we failed miserably. They still don't perform as well as Scylla.

Ted Chang and Chin Huang, IBM Solution Architects



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