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## System Properties Comparison Redis vs. TigerGraph

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Our visitors often compare Redis and TigerGraph with [Neo4j](#), [ArangoDB](#) and [Dgraph](#).

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### Editorial information provided by DB-Engines

Name	Redis <b>X</b>	TigerGraph <b>X</b>
Description	In-memory data structure store, used as database, cache and message broker <a href="#">i</a>	A complete, distributed, parallel graph computing platform supporting web-scale data analytics in real-time
Primary database model	<a href="#">Key-value store</a> <a href="#">i</a>	<a href="#">Graph DBMS</a>
Secondary database models	<a href="#">Document store</a> <a href="#">i</a> <a href="#">Graph DBMS</a> <a href="#">i</a> <a href="#">Search engine</a> <a href="#">i</a> <a href="#">Time Series DBMS</a> <a href="#">i</a>	
DB-Engines Ranking <a href="#">i</a> <a href="#">Trend Chart</a>	Score 151.86 Rank #7 Overall #1 Key-value stores	Score 1.13 Rank #159 Overall #12 Graph DBMS
Website	<a href="#">redis.io</a>	<a href="#">www.tigergraph.com</a>
Technical	<a href="#">redis.io/documentation</a>	<a href="#">docs.tigergraph.com</a>

documentation		
Developer	Salvatore Sanfilippo 	
Initial release	2009	2017
Current release	6.0.7, August 2020	
License 	Open Source 	commercial
Cloud-based only 	no	no
DBaaS offerings (sponsored links) 	<a href="#">ScaleGrid for Redis</a> : Fully managed hosting for Redis on AWS, Azure and DigitalOcean with high availability and SSH access on the #1 multi-cloud DBaaS.	
Implementation language	C	C++
Server operating systems	BSD Linux OS X Windows 	Linux
Data scheme	schema-free	yes
Typing 	partial 	yes
XML support 	no	no
Secondary indexes	yes 	
SQL 	no	SQL-like query language (GSQL)
APIs and other access methods	proprietary protocol 	GSQL (TigerGraph Query Language) Kafka RESTful HTTP/JSON API
Supported programming languages	C C# C++ Clojure Crystal D Dart Elixir Erlang Fancy	C++ Java



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	Fancy Go Haskell Haxe Java JavaScript (Node.js) Lisp Lua MatLab Objective-C OCaml Pascal Perl PHP Prolog Pure Data Python R Rebol Ruby Rust Scala Scheme Smalltalk Swift Tcl Visual Basic	
Server-side scripts 	Lua	yes
Triggers	no	no
Partitioning methods 	Sharding	
Replication methods 	Multi-source replication  Source-replica replication 	
MapReduce 	no	yes
Consistency concepts 	Eventual Consistency Strong eventual consistency with CRDTs	

Foreign keys 	no	yes 
Transaction concepts 	Optimistic locking, atomic execution of commands blocks and scripts	ACID
Concurrency 	yes 	yes
Durability 	yes 	yes
In-memory capabilities 	yes	no
User concepts 	Simple password-based access control 	Role-based access control
<b>More information provided by the system vendor</b>		
	<b>Redis</b>	<b>TigerGraph</b>
Specific characteristics		TigerGraph is a native graph database, with massively parallel processing and fully... <a href="#">» more</a>
Competitive advantages		TigerGraph is the fastest and most scalable graph platform, powered by a native parallel... <a href="#">» more</a>
Typical application scenarios		Anti Money Laundering Real-Time Fraud Detection Customer 360 Real-Time Personalized... <a href="#">» more</a>
Key customers		TigerGraph's proven technology supports applications such as fraud detection, customer... <a href="#">» more</a>
Market metrics		TigerGraph is 2x to more than 8000x faster at graph traversal and query response... <a href="#">» more</a>
Licensing and pricing models		NEW: TIGERGRAPH CLOUD - Fully managed Graph Database as a Service. Hourly pricing...

[Service nearby providers](#)
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We invite representatives of system vendors to [contact us](#) for updating and extending the system information, and for displaying vendor-provided information such as key customers, competitive advantages and market metrics.

## Related products and services

3rd parties

**CData:** Connect to Big Data & NoSQL through standard Drivers.

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**Datadog:** Monitor all Redis metrics: hit rates, clients, commands per second, and more.

[» more](#)

We invite representatives of vendors of related products to [contact us](#) for presenting information about their offerings here.

## More resources

	Redis	TigerGraph
DB-Engines blog posts	<p><a href="#">PostgreSQL is the DBMS of the Year 2018</a> 2 January 2019, Paul Andlinger, Matthias Gelbmann</p> <p><a href="#">MySQL, PostgreSQL and Redis are the winners of the March ranking</a> 2 March 2016, Paul Andlinger</p> <p><a href="#">MongoDB is the DBMS of the year, defending the title from last year</a> 7 January 2015, Paul Andlinger, Matthias Gelbmann</p> <p><a href="#">show all</a></p>	

Recent citations in the news	<p><a href="#">Redis Labs' RedisRaft Aims to Improve Database Consistency</a> 4 September 2020, thenewstack.io</p> <p><a href="#">Redis Labs, Maker Of Database Software, Hits \$1 Billion Valuation With New Fundraise</a> 25 August 2020, Forbes</p> <p><a href="#">Redis Labs Raises \$100M Series F Funding for Open Source Database</a> 26 August 2020, Solutions Review</p> <p><a href="#">Redis Labs Achieves Advanced Technology Partner Status in the AWS Partner Network</a> 3 September 2020, Business Wire</p> <p><a href="#">Cloud Database Market – Global Industry Study, Trends, Overview, Insights And Outlook 2020-2026</a> Teradata, EnterpriseDB, Cassandra, Redis Labs, MongoLab, Google, Microsoft, Rackspace, Oracle, Clustrix, Vmware, Inc, Cisco Systems 7 September 2020, The Daily Chronicle</p> <p>provided by <a href="#">Google News</a></p>	<p><a href="#">Myntelligence Optimizes Digital Marketing Campaigns and Unlocks Real-Time Business Insights with TigerGraph</a> 13 August 2020, MarTech Series</p> <p><a href="#">Graph + AI World 2020, First Open Conference on Accelerating AI with Graph, Announced for September 28-30, 2020</a> 20 August 2020, GlobeNewswire</p> <p><a href="#">Graph Analytics Market Size and Forecast (2020-2027)   By Top Leading Players – Ibm, Microsoft, Aws, Oracle, Neo4j, Tigergraph, Cray</a> 8 September 2020, The Daily Chronicle</p> <p><a href="#">Executive Perspective: Directions in Analytics</a> 10 August 2020, TDWI</p> <p><a href="#">TigerGraph's GSQL Recognized by SIGMOD for Advancing, Evolving Graph Analytics for the Enterprise</a> 22 July 2020, GlobeNewswire</p> <p>provided by <a href="#">Google News</a></p>
Job opportunities	<p><a href="#">Développeur Backend Node.js (pas de sous-traitance) / Freelance</a> One Logic, Versailles</p> <p><a href="#">Lead Dev Backend</a> Entourage</p> <p><a href="#">Back-end developer (M/F)</a></p>	<p><a href="#">Sales Development Representative</a> TigerGraph, Redwood City, CA</p> <p><a href="#">Support Engineer</a> TigerGraph, California</p> <p><a href="#">Software Engineer</a> TigerGraph, Redwood City, CA</p>

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