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Knowledge Base of Relational and NoSQL Database Management Systems

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System Properties Comparison Redis vs. TigerGraph

 Please select [another system](#) to include it in the comparison.

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

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

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documentation		
Developer	Salvatore Sanfilippo i	
Initial release	2009	2017
Current release	6.0.7, August 2020	
License i	Open Source i	commercial
Cloud-based only i	no	no
DBaaS offerings (sponsored links) i	ScaleGrid for Redis: 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 i	Linux
Data scheme	schema-free	yes
Typing i	partial i	yes
XML support i	no	no
Secondary indexes	yes i	
SQL i	no	SQL-like query language (GSQL)
APIs and other access methods	proprietary protocol i	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

More information provided by the system vendor

	Redis	TigerGraph
Specific characteristics		TigerGraph is a native graph database, with massively parallel processing and fully... » more
Competitive advantages		TigerGraph is the fastest and most scalable graph platform, powered by a native parallel... » more
Typical application scenarios		Anti Money Laundering Real-Time Fraud Detection Customer 360 Real-Time Personalized... » more
Key customers		TigerGraph's proven technology supports applications such as fraud detection, customer... » more
Market metrics		TigerGraph is 2x to more than 8000x faster at graph traversal and query response... » more
Licensing and pricing models		NEW: TIGERGRAPH CLOUD - Fully managed Graph Database as a Service. Hourly pricing...

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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	<p>CData: Connect to Big Data & NoSQL through standard Drivers. » more</p> <p>Datadog: Monitor all Redis metrics: hit rates, clients, commands per second, and more. » more</p>	
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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>PostgreSQL is the DBMS of the Year 2018 2 January 2019, Paul Andlinger, Matthias Gelbmann</p> <p>MySQL, PostgreSQL and Redis are the winners of the March ranking 2 March 2016, Paul Andlinger</p> <p>MongoDB is the DBMS of the year, defending the title from last year 7 January 2015, Paul Andlinger, Matthias Gelbmann</p>	

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

IoT.BZH, Lorient

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TalentSoft, Paris

[Software Engineer \(H/F\)](#)

Trainline, Paris

[Software Engineer, Query Optimizer](#)

TigerGraph, Redwood City, CA

[Software Technical Writer](#)

TigerGraph, Redwood City, CA

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Using Machine Learning



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