

Apache Hive Essentials

Apache Hive

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Apache Hive is a data warehouse software project. It is built on top of Apache Hadoop for providing data query and analysis. Hive gives an SQL-like interface to query data stored in various databases and file systems that integrate with Hadoop. Traditional SQL queries must be implemented in the MapReduce Java API to execute SQL applications and queries over distributed data.

Hive provides the necessary SQL abstraction to integrate SQL-like queries (HiveQL) into the underlying Java without the need to implement queries in the low-level Java API. Hive facilitates the integration of SQL-based querying languages with Hadoop, which is commonly used in data warehousing applications. While initially developed by Facebook, Apache Hive is used and developed by other companies such as Netflix and the...

Apache ORC

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Apache ORC (Optimized Row Columnar) is a free and open-source column-oriented data storage format. It is similar to the

other columnar-storage file formats available in the Hadoop ecosystem such as RCFile and Parquet. It is used by most of the data processing frameworks Apache Spark, Apache Hive, Apache Flink, and Apache Hadoop.

In February 2013, the Optimized Row Columnar (ORC) file format was announced by Hortonworks in collaboration with Facebook.

A calendar month later, the Apache Parquet format was announced, developed by Cloudera and Twitter.

Apache ORC format is widely supported including Amazon Web Services' Glue, Google Cloud Platform's BigQuery, and Pandas (software).

List of Apache Software Foundation projects

framework for partitioned and replicated distributed resources Hive: the Apache Hive data warehouse software facilitates querying and managing large

This list of Apache Software Foundation projects contains the software development projects of The Apache Software Foundation (ASF).

Besides the projects, there are a few other distinct areas of Apache:

Incubator: for aspiring ASF projects

Attic: for retired ASF projects

INFRA - Apache Infrastructure Team: provides and manages all infrastructure and services for the Apache Software Foundation, and for each project at the Foundation

MQTT

"Getting Started with MQTT". HiveMQ. 2020-04-24. Team, The HiveMQ. "Introducing the MQTT Protocol - MQTT Essentials: Part 1". HiveMQ. Retrieved 2021-09-26

MQTT is a lightweight, publish-subscribe, machine-to-machine network protocol for message queue/message queuing service. It is designed for connections with remote locations that have devices with resource constraints or limited network bandwidth, such as in the Internet of things (IoT). It must run over a transport protocol that provides ordered, lossless, bi-directional connections—typically, TCP/IP. It is an open OASIS standard and an ISO recommendation (ISO/IEC 20922).

MapReduce

blogspot.com. Retrieved 2008-08-27. "Apache Hive - Index of - Apache Software Foundation". "HBase - HBase Home - Apache Software Foundation". "Bigtable: A

MapReduce is a programming model and an associated implementation for processing and generating big data sets with a parallel and distributed algorithm on a cluster.

A MapReduce program is composed of a map procedure, which performs filtering and sorting (such as sorting students by first name into queues, one queue for each name), and a reduce method, which performs a summary operation (such as counting the number of students in each queue, yielding name frequencies). The "MapReduce System" (also called "infrastructure" or "framework") orchestrates the processing by marshalling the distributed servers, running the various tasks in parallel, managing all communications and data transfers between the various parts of the system, and providing for redundancy and fault tolerance.

The model is...

Comparison of MQTT implementations

MQTT broker; *flespi.com.* *MQTT Client*; *hivemq.com.* 10 November 2021. *MQTT Client 1.3.1*; *hivemq.com.* *HiveMQ Community Edition*; *hivemq*

MQTT is an ISO standard (ISO/IEC PRF 20922) publish-subscribe-based messaging protocol. It works on top of the Internet protocol suite TCP/IP. It is designed for connections with remote locations where a "small code footprint" is required or the network bandwidth is limited. The publish-subscribe messaging pattern requires a message broker.

All comparison categories use the stable version of each implementation listed in the overview section. The comparison is limited to features that relate to the MQTT protocol.

React (software)

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React (also known as React.js or ReactJS) is a free and open-source front-end JavaScript library that aims to make building user interfaces based on components more "seamless". It is maintained by Meta (formerly Facebook) and a community of individual developers and companies.

React can be used to develop single-page, mobile, or server-rendered applications with frameworks like Next.js and Remix. Because React is only concerned with the user interface and rendering components to the DOM, React applications often rely on libraries for routing and other client-side functionality. A key advantage of React is that it only re-renders those parts of the page that have changed, avoiding unnecessary re-rendering of unchanged DOM elements.

Legion of Doom

the crystal when they no longer needed it. The crystal was retrieved by Apache Chief in a hazmat suit and launched into deep space. It was not explained

The Legion of Doom is a group of supervillains who originated in Challenge of the Superfriends, an animated series from Hanna-Barbera based on DC Comics' Justice League. The Legion of Doom has since been incorporated into the main DC Universe, appearing in comics, as well as further animated and live-action adaptations, and also video games.

Drum and bass

dedicated to the genre. The genre has some popularity in film soundtracks. Hive's "Ultrasonic Sound" appeared on The Matrix's soundtrack, and the E-Z Rollers's

Drum and bass (D&B), also known as drum 'n' bass (DnB or D'n'B), is a genre of electronic dance music characterised by fast breakbeats (typically 165–185 beats per minute) with heavy bass and sub-bass lines, samples, and synthesizers. The genre grew out of the UK's jungle scene in the 1990s.

The popularity of drum and bass at its commercial peak ran parallel to several other UK dance styles. A major influence was the original Jamaican dub and reggae sound that influenced jungle's bass-heavy sound. Another feature of the style is the complex syncopation of the drum tracks' breakbeat. Drum and bass subgenres include breakcore, ragga jungle, hardstep, darkstep, techstep, neurofunk, ambient drum and bass, liquid funk (also known as liquid drum and bass), jump up, drumfunk, sambass, and drill...

Bioinformatics

platforms giving this service: Galaxy, Kepler, Taverna, UGENE, Anduril, HIVE. In 2014, the US Food and Drug Administration sponsored a conference held

Bioinformatics () is an interdisciplinary field of science that develops methods and software tools for understanding biological data, especially when the data sets are large and complex. Bioinformatics uses biology, chemistry, physics, computer science, data science, computer programming, information engineering, mathematics and statistics to analyze and interpret biological data. This process can sometimes be referred to as computational biology, however the distinction between the two terms is often disputed. To some, the term computational biology refers to building and using models of biological systems.

Computational, statistical, and computer programming techniques have been used for computer simulation analyses of biological queries. They include reused specific analysis "pipelines...

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