IN THE UNITED STATES DISTRICT COURT FOR THE WESTERN DISTRICT OF TEXAS AUSTIN DIVISION

R2 Solutions LLC,	Civil Action No. 1:23-cv-01205-RP
Plaintiff,	Civil Action No. 1:23-cv-01203-RP
v.	Jury Trial Demanded
Cloudera, Inc.,	
Defendant.	

FIRST AMENDED COMPLAINT FOR PATENT INFRINGEMENT

Plaintiff R2 Solutions LLC files this First Amended Complaint against Cloudera, Inc. for infringement of U.S. Patent No. 8,190,610 ("the '610 patent"). The '610 patent is sometimes referred to as the "patent-in-suit."

THE PARTIES

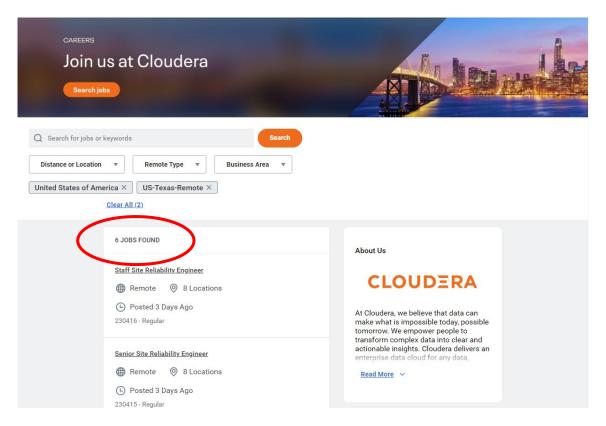
- 1. Plaintiff R2 Solutions LLC ("R2") is a Texas limited liability company located in Frisco, Texas.
- 2. Defendant Cloudera, Inc. ("Cloudera") is a Delaware corporation headquartered at 5470 Great America Pkwy., Santa Clara, CA 95054 and having a regular and established place of business in this District at 515 Congress Ave., Suite 1300, Austin, TX 78701. Cloudera may be served with process through its registered agent, Corporation Service Company d/b/a CSC Lawyers Incorporating Service Company, at 211 E. 7th Street, Suite 620, Austin, TX 78701.

JURISDICTION AND VENUE

3. This action arises under the patent laws of the United States, 35 U.S.C. § 101, *et seq.* This Court's jurisdiction over this action is proper under the above statutes, including 35

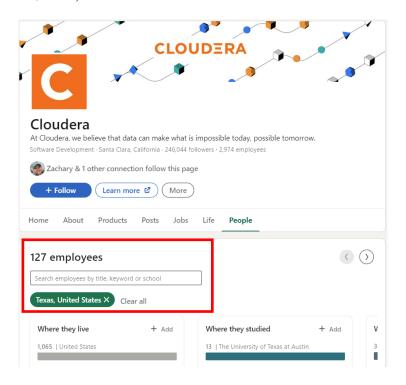
U.S.C. § 271, et seq., 28 U.S.C. § 1331 (federal question jurisdiction), and 28 U.S.C. § 1338 (jurisdiction over patent actions).

4. This Court has personal jurisdiction over Cloudera because, among other things, Cloudera does business in this State by, among other things, "recruit[ing] Texas residents, directly or through an intermediary located in this State, for employment inside or outside this State." Tex. Civ. Prac. & Rem. Code § 17.042(3). For instance, Cloudera has multiple job openings in Texas as of October 2, 2023:¹



¹ https://cloudera.wd5.myworkdayjobs.com/External_Career?locationCountry=bc33aa3152 ec42d4995f4791a106ed09&locations=099bd8052f77105bfed69a9cf552387f; see also https://www.linkedin.com/jobs/search/?currentJobId=3670951181&f C=229433&geoId=92000000&keywords=texas.

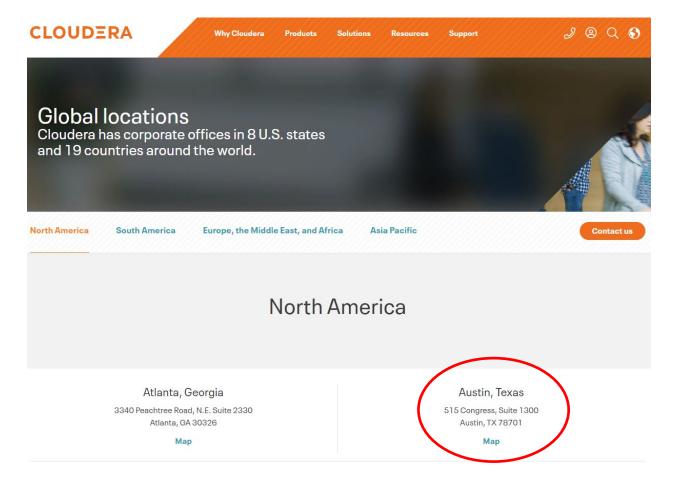
5. And according to its LinkedIn page, Cloudera has 127 employees in its Austin office (as of October 2, 2023):²



6. Further, this Court has personal jurisdiction over Cloudera because it has engaged, and continues to engage, in continuous, systematic, and substantial activities within this State, including the substantial marketing and sale of products and services within this State and this District. Indeed, this Court has personal jurisdiction over Cloudera because it has committed acts giving rise to R2's claims for patent infringement within and directed to this District, has derived substantial revenue from its goods and services provided to individuals and entities in this State and this District, and maintains regular and established places of business in this District, including at least its brick-and-mortar location in Austin:³

² https://www.linkedin.com/company/cloudera/people/?facetGeoRegion=102748797.

³ https://www.cloudera.com/about/locations.html.



7. Relative to patent infringement, Cloudera has committed and continues to commit acts in violation of 35 U.S.C. § 271, and has made, used, offered for sale, and/or sold infringing products, systems, and/or services in this State, including this District, and has otherwise engaged in infringing conduct within and directed at, or from, this District. Such infringing products, systems, and/or services (collectively, the "Accused Instrumentalities") include the Cloudera Data Platform (CDP) (including CDP Public Cloud, CDP Private Cloud, and CDP One), Cloudera Distributed Hadoop (CDH), Cloudera Enterprise (including at least the Data Science and Engineering, Operational DB, Data Warehouse, and/or Enterprise Data Hub editions), Hortonworks Data Platform (HDP), Teradata Appliance for Hadoop, and any other platform(s) offered or provided by Cloudera that utilize one or more of Apache Hadoop, Apache Hive, Apache Spark, Apache Impala, Apache Flink, Apache Kafka, and Apache Phoenix.

- 8. Cloudera's infringing activities have caused harm to R2 in this District. Cloudera and/or its partners offer to sell and sell the Accused Instrumentalities within this District, and on information and belief, Cloudera, its partners, and/or its customers make the Accused Instrumentalities in this District and use the Accused Instrumentalities in this District in an infringing manner. For example, Cloudera, its partners, and/or their customers (induced by Cloudera) implement and exert control over the Accused Instrumentalities via multi-cloud and on-premises solutions that utilize computers and/or servers located in this District. Outputs from such methods and systems are generated by and/or delivered to devices implementing the Accused Instrumentalities in this District. Cloudera and/or its partners provide the Accused Instrumentalities (and services therewith) to customers in this District, and Cloudera's customers in this District obtain data analytics facilitated by the Accused Instrumentalities, whether via Cloudera's implementation of the Accused Instrumentalities on their behalf, or via their use of the Accused Instrumentalities provided to them by Cloudera. These are purposeful acts and transactions in this State and this District such that Cloudera reasonably should know and expect that it could be haled into this Court.
- 9. Venue is proper in this District under 28 U.S.C. §§ 1391 and 1400(b) because Cloudera has a regular and established place of business in Austin, which is in this District. Venue is further proper in this District because Cloudera has directly infringed and/or induced the infringement of others, including its customers, in this District. As set out above, Cloudera has at least offered for sale and sold the Accused Instrumentalities in this District and has used the Accused Instrumentalities in an infringing manner in this District. In addition, Cloudera's customers have made and continue to make the Accused Instrumentalities in this District, and have used and continue to use the Accused Instrumentalities in an infringing manner in this

District. These infringements were, and continue to be, induced by Cloudera (as set out further below).

BACKGROUND

- 10. The patent-in-suit was filed by Yahoo! Inc. ("Yahoo!") in 2006. At the time, Yahoo! was a leading Internet communications, commerce, and media company. Yahoo! invested billions of dollars in research and development over this period, filing hundreds of patent applications each year to cover the innovative computing technologies emerging from its expansive research and development efforts.
- 11. Yahoo! began as a directory of websites that two Stanford graduate students developed as a hobby. The name "Yahoo" stands for "Yet Another Hierarchical Officious Oracle," a nod to how the original Yahoo! database was arranged hierarchically in layers of subcategories. From this initial database, Yahoo! would develop and promulgate numerous advancements in the field of data storage and recall.
- 12. For example, in 1995, Yahoo! introduced Yahoo! Search. This software allowed users to search the Yahoo! directory, making it the first popular online directory search engine. This positioned Yahoo! as the launching point for most users of the World Wide Web. By 1998, Yahoo! had the largest audience of any website or online service. In the early 2000s, Yahoo! continued to develop its suite of technologies in the web search and database industries. The patent-in-suit relates to innovations during this period associated with data analytics.

THE PATENT-IN-SUIT

13. The '610 patent is entitled, "MapReduce for Distributed Database Processing." The '610 patent lawfully issued on May 29, 2012, and stems from U.S. Patent Application No.

11/539,090, which was filed on October 5, 2006. A copy of the '610 patent is attached hereto as Ex. 1.

- 14. R2 Solutions is the owner of the patent-in-suit with all substantial rights, including the exclusive right to enforce, sue, and recover damages for past and future infringements.
- 15. The claims of the patent-in-suit are directed to patent-eligible subject matter under 35 U.S.C. § 101. As discussed at length in the Declaration of Bill Davis (attached hereto as Exhibit 2), the claims are not directed to abstract ideas, and the technologies covered by the claims consist of ordered combinations of features and functions that, at the time of invention, were not, alone or in combination, well-understood, routine, or conventional.
- 16. Indeed, the '610 patent discloses shortcomings in the prior art and then explains, in detail, the technical way the claimed inventions resolve or overcome those shortcomings. Ex. 2 at ¶ 25. For example, the specification explains that "conventional MapReduce implementations do not have facility to efficiently process data from heterogeneous sources" and that "it is impractical to perform joins over two relational tables that have different schemas." '610 patent at 3:9-20; *see also* Ex. 2 at ¶ 25. To solve these problems, the '610 patent provides a clear technological improvement to existing MapReduce systems by describing and implementing a novel MapReduce architecture where mapping and reducing functions can be applied to data from heterogeneous data sources (i.e., data sources having different schema) to accomplish the merger of heterogeneous data based on a key in common between or among the heterogeneous data. Ex. 2 at ¶ 34. For example, the '610 patent explains how implementation of, e.g., "data groups" realizes these improvements:

In general, partitioning the data sets into data groups enables a mechanism to associate (group) identifiers with data sets, map functions and iterators (useable

within reduce functions to access intermediate data) and, also, to produce output data sets with (group) identifiers. It is noted that the output group identifiers may differ from the input/intermediate group identifiers.

'610 patent at 3:58-64.

17. The technological advantages of a "data group"-centric system are shown to "enhance[] the utility of the MapReduce programming methodology." '610 patent at 1:32-33. As the specification explains:

[T]he MapReduce concept may be utilized to carry out map processing independently on two or more related datasets (e.g., related by being characterized by a common key) even when the related data sets are heterogeneous with respect to each other, such as data tables organized according to different schema. The intermediate results of the map processing (key/value pairs) for a particular key can be processed together in a single reduce function by applying a different iterator to intermediate values for each group. In this way, operations on the two or more related datasets may be carried out more efficiently or in a way not even possible with the conventional MapReduce architecture.

Id. at 8:47-58.

18. Such a solution is embodied, for example, in Claim 1 of the '610 patent:

A method of processing data of a data set over a distributed system, wherein the data set comprises a *plurality of data groups*, the method comprising: partitioning the data of each one of the data groups into a plurality of data partitions that each have a plurality of key-value pairs and *providing each data partition to a selected one of a plurality of mapping functions* that are each user-configurable to independently output a plurality of lists of values for each of a set of keys found in such map function's corresponding data partition to form corresponding *intermediate data for that data group and identifiable to that data group*, wherein *the data of a first data group has a different schema than the data of a second data group* and *the data of the first data group is mapped differently than the data of the second data group*

so that different lists of values are output for the corresponding different intermediate data, wherein the different schema and corresponding different intermediate data have a key in common; and

reducing the intermediate data for the data groups to at least one output data group, including processing the intermediate data for each data group in a manner that is defined to correspond to that data group, so as to result in a merging of the corresponding different intermediate data based on the key in common,

wherein the mapping and reducing operations are performed by a distributed system.

(emphasis added).

- 19. The concept of "data groups" as found in Claim 1 of the '610 patent in the context of MapReduce, thus, attains a novel and technological improvement in computer capabilities. See Ex. 2 at ¶ 40. For example, employing "data groups" allows a diverse data set to be fed to collections of mapping and reducing functions within the same MapReduce architecture to ultimately be joined and/or merged in spite of the diversity. *Id.* Per Claim 1, the improved MapReduce architecture in the reducing phase is able to selectively employ specialized processing based on the "data group" from which the data being reduced originated, and this specialized processing enables the MapReduce architecture in the reducing phase to accomplish the merger of intermediate data hailing from different data groups. *Id.*
- 20. The inventions described and claimed in the '610 patent improve the speed, efficiency, effectiveness, and functionality of computer systems. *See id.* at ¶ 47. Moreover, the inventions provide an improvement in computer functionality rather than improvement in performance of an economic task or other tasks for which a computer is used merely as a tool. *Id.* The '610 patent itself states that the claimed inventions "enhance[] the utility of the MapReduce programming methodology." '610 patent at Abstract, 1:31-33, 1:66-2:2. The '610 patent

specification goes on to explain that "[t]he intermediate results of the map processing (key/value pairs) for a particular key can be processed together in a single reduce function by applying a different iterator to intermediate values for each group." *Id.* at Abstract, 1:37-39, 2:4-8. And the specification discusses the use of multiple processors to perform processing functions in parallel. *See id.* As a result, computer functionality is improved. *Id.* at 1:42-44; *see* Ex. 2 at ¶ 47.

- 21. Additionally, the claimed inventions provide for more dynamic, customizable, and efficient processing of large sets of data. Ex. 2 at ¶ 48; *see also*, *e.g.*, '610 patent at 2:58-61, 4:18-22. The inventions provide optimization of such processing, which increases efficiency and reduces processor execution time. Ex. 2 at ¶ 48. For example, the specification describes a combiner function that "helps reduce the network traffic and speed up the total execution time." '610 patent at 3:1-8; *see also* Ex. 2 at ¶ 49. The specification also discusses the use of configurable settings to reduce processing overhead. *See, e.g.*, *id.* at 4:60-62, 5:33-39.
- 22. In essence, the patent-in-suit relates to novel and non-obvious inventions in the fields of data analytics and database structures.

DEFENDANT'S PRE-SUIT KNOWLEDGE OF ITS INFRINGEMENT

- 23. Prior to the filing of the Complaint, Cloudera was notified on numerous occasions of the '610 patent and the R2 portfolio to which the '610 patent belongs.
- 24. On March 2, 2021, R2 filed suit against JPMorgan Chase & Co., styled *R2* Solutions LLC v. JPMorgan Chase & Co., Case No. 4:21-cv-00174 (E.D. Tex. Mar. 2, 2021) (the "JPM litigation"), alleging infringement of the '610 patent.
- 25. On July 26, 2021, Craig Yudell, President of R2, sent a letter to David Howard, Cloudera's Chief Legal Officer, offering an opportunity to negotiate a license to the portfolio that includes the patent-in-suit. The letter explained that R2's portfolio originated from Yahoo!

and that it includes patents covering a variety of technologies relevant to Cloudera. The letter further explained that R2 had asserted its patent rights against multiple companies, including in the JPM litigation.

- 26. On September 27, 2021, Mr. Yudell sent Mr. Howard another letter restating the information from the July 26 letter and, again, offering an opportunity to open negotiations. The September 27 letter further explained that since the July 26 letter, R2 had licensed many companies through negotiated deals and had also resolved several lawsuits. The patent-in-suit was asserted in these lawsuits.
 - 27. Cloudera ignored these attempts to open a licensing dialogue.
- 28. On February 1, 2022, R2 served Cloudera with a subpoena in connection with the JPM litigation. The subpoena specifically identified the '610 patent and sought materials and testimony regarding Cloudera's systems and products that are now accused in this lawsuit.
- 29. On November 29, 2021, R2 filed suit against FedEx Corporate Services, Inc., styled *R2 Solutions LLC v. FedEx Corporate Services, Inc.*, Case No. 4:21-cv-00940 (E.D. Tex. Nov. 29, 2021) (the "FedEx litigation"), alleging infringement of the '610 patent.
- 30. On September 1, 2022, FedEx counsel filed a declaration with the Eastern District of Texas claiming that Cloudera possessed and controlled source code related to FedEx's data analytics system.
- 31. On September 9, 2022, R2 served Cloudera with a subpoena in connection with the FedEx litigation. The subpoena specifically identified the '610 patent and sought materials and testimony regarding Cloudera's systems and products that are now accused in this lawsuit.
- 32. On information and belief, Cloudera has had knowledge of the '610 patent and its infringements since shortly after March 2, 2021, when R2 filed suit in the JPM litigation. In the

alternative, Cloudera has had knowledge of the '610 patent since receiving the letter from Mr. Yudell on July 26, 2021. At the very least, Cloudera has had knowledge of the '610 patent since being served with a subpoena in connection with the FedEx litigation on February 1, 2022.

COUNT I INFRINGEMENT OF U.S. PATENT NO. 8,190,610

- 33. This cause of action arises under the patent laws of the United States, and in particular, 35 U.S.C. §§ 271, et seq.
- 34. R2 Solutions is the owner of the '610 patent with all substantial rights to the '610 patent, including the exclusive right to enforce, sue, and recover damages for past and future infringements.
- 35. The '610 patent is valid and enforceable and was duly issued in full compliance with Title 35 of the United States Code.

Direct Infringement (35 U.S.C. § 271(a))

- 36. Cloudera has directly infringed, and continues to directly infringe, one or more claims of the '610 patent in this District and elsewhere in Texas and the United States.
- 37. To this end, Cloudera has infringed and continues to infringe, either by itself or via an agent, at least claims 1-32 of the '610 patent by, among other things, making, offering to sell, selling, and/or using the Accused Instrumentalities.
- 38. For example, Cloudera uses the Accused Instrumentalities in an infringing manner as detailed in Exhibit 3. Cloudera both uses the Accused Instrumentalities for itself and implements the Accused Instrumentalities to provide analytics services to its customers.

Cloudera offers services on a per-"Cloudera Compute Unit (CCU)" basis. A "CCU" is "a combination of Core and Memory."

- 39. In addition, on information and belief, Cloudera makes and uses the Accused Instrumentalities for itself and for its customers. Cloudera also offers to sell and sells the Accused Instrumentalities to its customers for implementation directly by the customers. For example, Cloudera, in a joint enterprise with Teradata Corporation, offers the "Teradata Appliance for Hadoop with Cloudera, a powerful, ready-to-run enterprise platform that is preconfigured and optimized specifically for big data" that runs the Accused Instrumentalities. Such making, offering to sell, and selling directly infringes the '610 patent as detailed in Exhibit 4.
- 40. Cloudera is liable for its infringements of the '610 patent pursuant to 35 U.S.C. § 271.

Indirect Infringement (Inducement – 35 U.S.C. § 271(b))

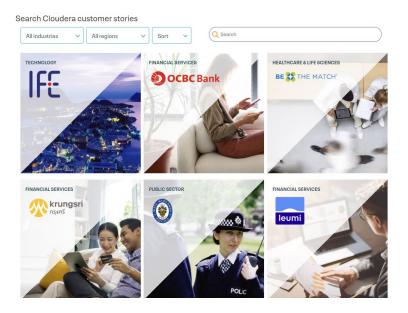
41. In addition and/or in the alternative to its direct infringements, Cloudera has indirectly infringed and continues to indirectly infringe one or more claims of the '610 patent by inducing direct infringement by its customers, partners, and end users. Cloudera's customers and end users directly infringe the '610 patent when the make the Accused Instrumentalities and use them in an infringing manner (as set out in Exhibits 3 and 4). Cloudera's partners directly infringe the '610 patent when they make, offer for sale, and sell the Accused Instrumentalities, and use the Accused Instrumentalities in an infringing manner (as set out in Exhibits 3 and 4).

⁴ https://www.cloudera.com/products/pricing.html.

⁵ https://www.cloudera.com/products/pricing.html.

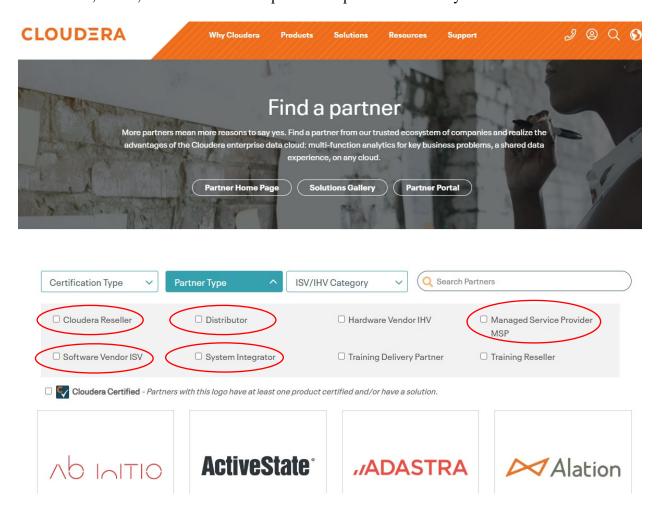
⁶ https://www.cloudera.com/content/dam/www/marketing/resources/solution-briefs/cloudera-teradata-appliance-solution-brief.pdf.landing.html.

- 42. On information and belief, Cloudera has had knowledge of the '610 patent and its infringements since shortly after March 2, 2021, when R2 filed suit in the JPM litigation. In the alternative, Cloudera has had knowledge of the '610 patent since receiving the letter from Mr. Yudell on July 26, 2021. At the very least, Cloudera has had knowledge of the '610 patent since being served with a subpoena in connection with the FedEx litigation on February 1, 2022.
- 43. Despite having knowledge of the '610 patent and knowledge of its scope,
 Cloudera has specifically intended, and continues to specifically intend, for persons (such as
 Cloudera's customers, partners, and end users) to make the Accused Instrumentalities and use
 the Accused Instrumentalities in ways that infringe the '610 patent, including at least claims 132. Cloudera has also specifically intended, and continues to specifically intend, for its partners
 to offer for sale and sell the Accused Instrumentalities. Cloudera knew or should have known
 that its actions have induced, and continue to induce, such infringements.
 - 44. Cloudera provides the Accused Instrumentalities to its customers:⁷



⁷ https://www.cloudera.com/about/customers.html.

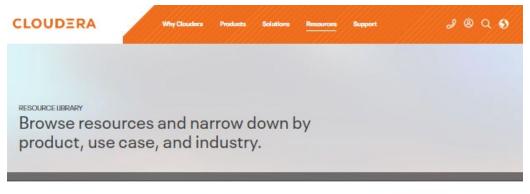
45. Cloudera also provides its partners with the Accused Instrumentalities for distribution, resale, and/or to enable its partners to provide data analytics services to end users:⁸

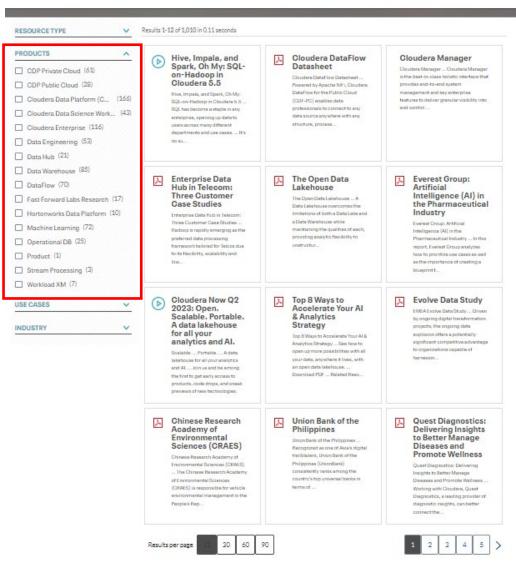


46. Cloudera instructs and encourages partners, customers, and end users to make the Accused Instrumentalities and use the Accused Instrumentalities in ways that infringe the '610 patent. For example, the Cloudera website includes a "Resources" page with explicit instructions on how to implement and operate each Accused Instrumentality in an infringing manner: 9

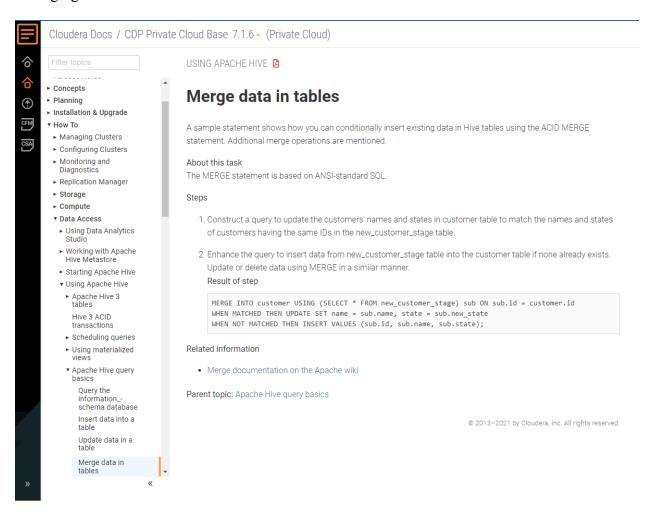
⁸ https://www.cloudera.com/partners/partners-listing.html.

⁹ https://www.cloudera.com/resources/resource-library.html#t=All&numberOfResults=12.





47. Cloudera also maintains one or more "Cloudera Documentation" websites with explicit instructions on how to implement and operate each Accused Instrumentality in an infringing manner: ¹⁰



10 https://docs.cloudera.com/cdp-private-cloud-base/7.1.6/using-hiveql/topics/hive_merge_data_in_hive_tables.html; https://docs.cloudera.com/cdp-private-cloud-base/7.1.6/impala-planning/topics/impala-schema-design.html;

https://docs.cloudera.com/documentation/enterprise/6/6.3/topics/hive intro.html;

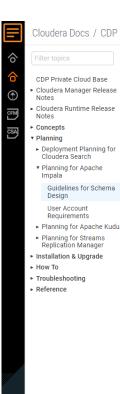
https://docs.cloudera.com/documentation/enterprise/6/6.3/topics/impala_components.html;

https://docs.cloudera.com/cdp-private-cloud-base/7.1.6/schema-registry-overview/topics/csp-

schema registry overview.html; https://docs.cloudera.com/HDPDocuments/HDP2/HDP-2.1.3/bk_using-apache-

hadoop/content/running mapreduce examples on yarn.html;

https://docs.cloudera.com/documentation/enterprise/6/6.3/topics/spark.html.



Cloudera Docs / CDP Private Cloud Base 7.1.6 (Private Cloud)

process a separate data block in parallel. With 16-core machines on a 10-node cluster, a query could process up to 160 GB fully in parallel. If there are only a few data files per partition, not only are most cluster nodes sitting idle during queries, so are most cores on those machines.

You can reduce the Parquet block size to as low as 128 MB or 64 MB to increase the number of files per partition and improve parallelism. But also consider reducing the level of partitioning so that analytic queries have enough data to work with

Run COMPUTE STATS after loading data

Impala makes extensive use of statistics about data in the overall table and in each column, to help plan resourceintensive operations such as join queries and inserting into partitioned Parquet tables. Because this information is only available after data is loaded, run the COMPUTE STATS statement on a table after loading or replacing data in a table or partition

Having accurate statistics can make the difference between a successful operation, or one that fails due to an out-of-memory error or a timeout. When you encounter performance or capacity issues, always use the SHOW STATS statement to check if the statistics are present and up-to-date for all tables in the query.

When doing a join query, Impala consults the statistics for each joined table to determine their relative sizes and to estimate the number of rows produced in each join stage. When doing an INSERT into a Parquet table, Impala consults the statistics for the source table to determine how to distribute the work of constructing the data files for each partition.

Verify sensible execution plans with EXPLAIN and SUMMARY

Before executing a resource-intensive query, use the EXPLAIN statement to get an overview of how Impala intends to parallelize the query and distribute the work. If you see that the query plan is inefficient, you can take tuning steps such as changing file formats, using partitioned tables, running the COMPUTE_STATS statement, or adding query hints.

After you run a query, you can see performance-related information about how it actually ran by issuing the SUMMARY command in impala-shell. Prior to Impala 1.4, you would use the PROFILE command, but its highly technical output was only useful for the most experienced users. SUMMARY, new in Impala 1.4, summarizes the most useful information for all stages of execution, for all nodes rather than splitting out figures for each node.

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- Proof-of-Concept Installation Guide

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- ► Cluster Management
- ► Security ► Cloudera Navigator Data
- ▶ CDH Component Guides Glossary

Apache Hive Overview in CDH

Hive data warehouse software enables reading, writing, and managing large datasets in distributed storage. Using the Hive query language (HiveQL), which is very similar to SQL, queries are converted into a series of jobs that execute on a Hadoop cluster through MapReduce or Apache Spark.

Users can run batch processing workloads with Hive while also analyzing the same data for interactive SQL or machine-learning workloads using tools like Apache Impala or Apache Spark—all within a single platform.

As part of CDH, Hive also benefits from:

- Unified resource management provided by YARN
- Simplified deployment and administration provided by Cloudera Manager
- Shared security and governance to meet compliance requirements provided by Apache Sentry and Cloudera Navigator

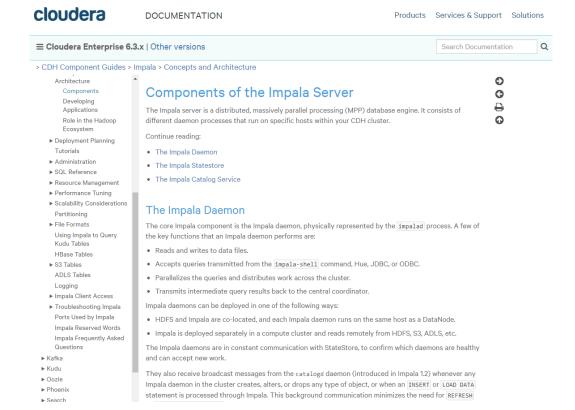
Use Cases for Hive

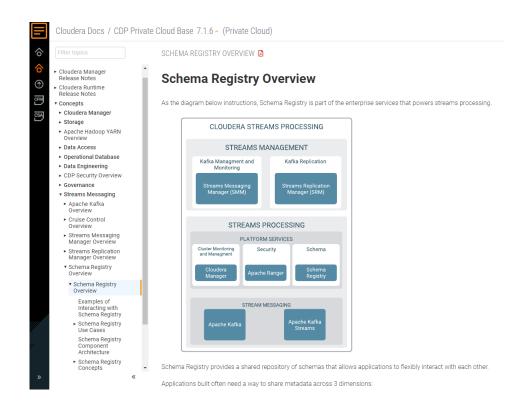
Because Hive is a petabyte-scale data warehouse system built on the Hadoop platform, it is a good choice for environments experiencing phenomenal growth in data volume. The underlying MapReduce interface with HDFS is hard to program directly, but Hive provides an SQL interface, making it possible to use existing programming skills to perform data preparation.

Hive on MapReduce or Spark is best-suited for batch data preparation or ETL:

- You must run scheduled batch jobs with very large ETL sorts with joins to prepare data for Hadoop. Most
 data served to BI users in Impala is prepared by ETL developers using Hive.
- You run data transfer or conversion jobs that take many hours. With Hive, if a problem occurs partway
 through such a job, it recovers and continues.
- You receive or provide data in diverse formats, where the Hive SerDes and variety of UDFs make it
 convenient to ingest and convert the data. Typically, the final stage of the ETL process with Hive might
 be to a high-performance, widely supported format such as Parquet.

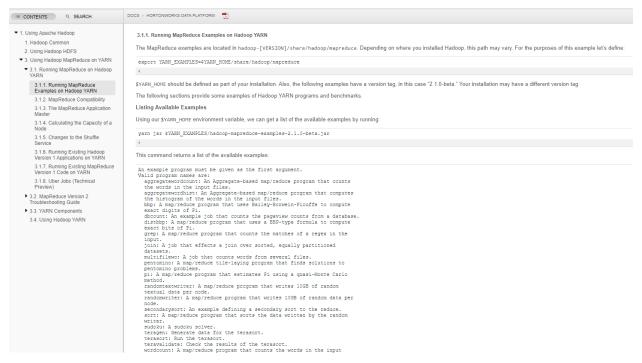
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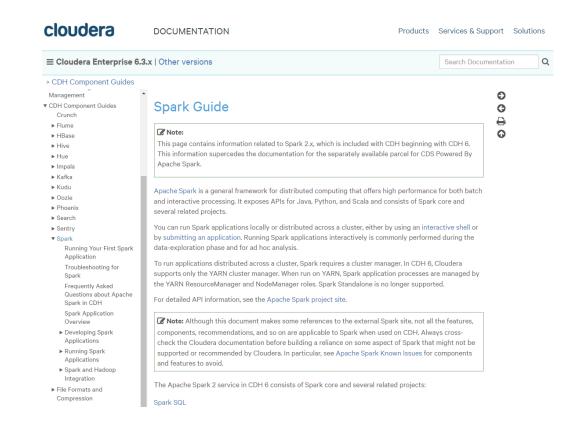






3.1.1. Running MapReduce Examples on Hadoop YARN





48. Other exemplary instructions and documentation that explain how to make and use the Accused Instrumentalities in an infringing manner are set out in Exhibits 3 and 4.

Damages

- 49. R2 has been damaged as a result of Cloudera's infringing conduct described in this Count. Cloudera is, thus, liable to R2 in an amount that adequately compensates it for Cloudera's infringements, which, by law, cannot be less than a reasonable royalty, together with interest and costs as fixed by this Court under 35 U.S.C. § 284.
- 50. Despite having knowledge of the '610 patent, and knowledge that it is directly and/or indirectly infringing claims of the '610 patent, Cloudera has nevertheless continued its infringing conduct in an egregious manner. On information and belief, Cloudera knew of the '610 patent and its scope, yet continued to manufacture, use, and sell infringing products. At the very least, Cloudera was willfully blind to the '610 patent and its application to the Accused Instrumentalities. For at least these reasons, Cloudera's infringing activities have been, and continue to be, willful, wanton, and deliberate in disregard of R2's rights with respect to the '610 patent, justifying enhanced damages under 35 U.S.C. § 284.

DEMAND FOR A JURY TRIAL

R2 demands a trial by jury on all issues triable of right by jury pursuant to Rule 38 of the Federal Rules of Civil Procedure.

PRAYER FOR RELIEF

R2 respectfully requests that this Court enter judgment in its favor and grant the following relief:

(i) Judgment and Order that Cloudera has directly and/or indirectly infringed one or more claims of the patent-in-suit;

- (ii) Judgment and Order that Cloudera must pay R2 past and future damages under 35 U.S.C. § 284, including supplemental damages arising from any continuing, post-verdict infringement for the time between trial and entry of the final judgment, together with an accounting, as needed, as provided under 35 U.S.C. § 284;
- (iii) Judgment and Order that Cloudera must pay R2 reasonable ongoing royalties on a go-forward basis after Final Judgment;
- (iv) Judgment and Order that Cloudera's infringement of the '610 patent has been willful from the time that Cloudera became aware of the infringing nature of its products, and that the Court award treble damages pursuant to 35 U.S.C. § 284;
- (v) Judgment and Order that Cloudera must pay R2 pre-judgment and post-judgment interest on the damages award;
- (vi) Judgment and Order that Cloudera must pay R2's costs;
- (vii) Judgment and Order that the Court find this case exceptional under the provisions of 35 U.S.C. § 285 and, accordingly, order Cloudera to pay R2's attorneys' fees; and
- (viii) Such other and further relief as the Court may deem just and proper.

Dated: December 29, 2023 Respectfully submitted,

/s/ Edward R. Nelson III
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CERTIFICATE OF SERVICE

I hereby certify that all counsel of record who have consented to electronic service are being served with a copy of this document via the Court's CM/ECF system on December 29, 2023.

/s/ Edward R. Nelson III