Apache hBase

Functional Area: Database:NoSQL:Column

Overview:

Apache HBase is an open-source software package modeled after Google Bigtable database [1], a part of the Apache Big Data Stack that serves as a scalable database capable of managing and organizing petabyte size data sets [2]. In retrospect these data sets form an enormous system of tables, which provide storage space and meet head-on the challenges associated with Big Data.

References:

[1] Chang F, Dean J, Ghemawat S, Hsieh WC, Wallach DA, Burrows M, Chandra T, Fikes A, E GR: “**Bigtable: A distributed storage system for structured data.”**In Seventh Symposium on Operating System Design and Implementation. Seattle, WA: Usenix Association; 2006. [OpenURL](http://www.biomedcentral.com/sfx_links?ui=1471-2105-11-S12-S1&bibl=B32)

[2] Ronald Taylor, “An overview of the Hadoop/MapReduce/HBase framework and its current applications in bioinformatics,” in Proceedings of the 11th Annual Bioinformatics Open Source Conference, 2010 © BioMed Central Ltd. doi: 10.1186/1471-2105-11-S12-S1