HBase is composed of three types of servers in a master slave type of architecture.
Region servers serve data for reads and writes
HBase Master process handles the Region assignment, DDL (create, delete tables) operations

Zookeeper maintains a live cluster state.

The <u>Hadoop</u> DataNode stores the data that the Region Server is managing

HBASE Architecture

All HBase data is stored in HDFS files

• The NameNode maintains metadata information for all the physical data blocks that comprise the files.

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Hadoop and RDBMS are varying concepts of processing, retrieving and storing the data or information. While Hadoop is an open-source Apache project,

RDBMS stands for Relational Database Management System. Hadoop framework has been written in Java which makes it scalable and makes it able to support

applications that call for high performance standards. Hadoop framework enables the storage of large amounts of data on files systems of multiple computers.

Hadoop is configured to allow scalability from a single computer node to several thousands of nodes or independent workstations in a manner that the individual nodes utilize local computer storage CPU processing power and memory.

Traditional RDBMS is utilized to handle relational data while <u>Hadoop</u> works well with structured as well as unstructured data, supporting multiple serialization and data formats such as Text, <u>Json</u>, <u>Xml</u>, <u>Avro</u> and more. The distribution of <u>Hadoop</u> is done from the ground up with the option of adding more nodes in order to boost capacity.