# Cloudera Nedir?

Cloudera Inc. was founded by big data geniuses from Facebook, Google, Oracle and Yahoo in 2008. It was the first company to develop and distribute Apache Hadoop-based software and still has the largest user base with most number of clients. Although the core of the distribution is based on Apache Hadoop, it also provides a proprietary Cloudera Management Suite to automate the installation process and provide other services to enhance convenience of users which include reducing deployment time, displaying real time nodes count, etc.

# **Hortonworks Nedir?**

Hortonworks, founded in 2011, has quickly emerged as one of the leading vendors of Hadoop. The distribution provides open source platform based on Apache Hadoop for analysing, storing and managing big data. Hortonworks is the only commercial vendor to distribute complete open source Apache Hadoop without additional proprietary software. Hortonworks distribution HDP2.0 can be directly downloaded from their website free of cost and is easy to install. The engineers of Hortonworks are behind most of Hadoops recent innovations including Yarn, which is better than MapReduce in the sense that it will enable inclusion of more data processing frameworks.

# MapR Nedir?

In its standard, open source edition, Apache Hadoop software comes with a number of restrictions. Vendor distributions are aimed at overcoming the issues that the users typically encounter in the standard editions. Under the free Apache license, all the three distributions provide the users with the updates on core Hadoop software. But when it comes to handpicking any one of them, one should look at the additional value it is providing to the customers in terms of improving the reliability of the system (detecting and fixing bugs etc), providing technical assistance and expanding functionalities.

All three top [Hadoop distributions, Cloudera, MapR and Hortonworks offer consulting, training](https://www.experfy.com/training/tracks/big-data-training-certification), and technical assistance. But unlike its two rivals, Hortonworks distribution is claimed to be 100 percent open source. Cloudera incorporates an array of proprietary elements in its Enterprise 4.0 version, adding layers of administrative and management capabilities to the core Hadoop software.

Going a step further, MapR replaces HDFS component and instead uses its own proprietary file system, called MapRFS. MapRFS helps incorporate enterprise-grade features into Hadoop, enabling more efficient management of data, reliability and most importantly, ease of use. In other worlds, it is more production ready than its other two competitors.

Through a recent partnership with Canonical, the creator of Ubuntu operating system, MapR is offering Hadoop as a default component of Ubuntu operating system. Under the terms of the partnership, MapRs M3 Edition for Apache Hadoop will be integrated into Ubuntu operating system.

Upto its M3 edition, MapR is free, but the free version lacks some of its proprietary features namely, JobTracker HA, NameNode HA, NFS-HA, Mirroring, Snapshot and few more.