

COMPARATIVE STUDY OF BIG DATA OPEN SOURCE TOOLS

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ABSTRACT: Today data is growing in volume, variety and velocity. To handle this data, one has to use databases with massively parallel software running on tens, hundreds, or more than thousands of servers. 50 billion devices are expected to have been connected to internet by 2020. So Big data platforms are used to acquire, organize and analyze these types of data. There is no direct definition of how big a dataset has to be to be labeled Big Data. Nevertheless, new technologies have to be in place to manage the Big Data phenomenon. Over the past era, there have been a lot of efforts and studies carried out in growing proficient tools for performing various tasks in big data. Recently big data have gained a lot of publicity for their good reasons. Big Data gains global attention due to the increased usage of social media. Due to the large and complex collection of datasets it is difficult to process on traditional data processing applications. This concern turns to be further mandatory for producing various tools in big data. This paper discusses the back ground of Big Data tools and state-of-art of Big Data tools. The paper first introduced general characteristics of Big Data. Then it focuses on overview of different Big Data tools. Finally the paper touches upon the comparative aspects of the various tools in Big Data followed by a brief conclusion.

Keywords: Big Data, Hadoop, MapReduce, Sqoop, Velocity

1. INTRODUCTION

In the past, type of information available was little. There was a well-defined set of technology closer for managing information. But in today's world, the amount of data in our world has been blowing. It has grown to terabytes and petabytes. As a result, day by day the amount of data uploaded is increasing fast [1] and leads to an extraordinary rate of data creation. Big data distinct from large existing data stored in various relational databases. It refers to a collection of large data sets which are very complex. Big data can be described using following terms:

1) **Volume:** Some small sized organizations may have gigabytes or terabytes of data storage. Data volume will continue to grow, nevertheless of the organization's size. Many of these companies' datasets are within the terabytes range today but, soon they could reach petabytes or even exabytes. Machine generated data is huge in volume than the traditional data. The increase in the volume of various data records is typically managed by purchasing online storage.

2) **Variety:** Various types of data are captured. It may be structured, semi structures or unstructured. Refers to the many different data and file types that are important to manage and examine more thoroughly, but for which traditional relational databases are poorly suited. Some examples of this variety include sound and movie files, images, documents, geo-location data, web logs, text strings, web contents etc [2].

3) **Velocity:** The data is arriving continuously as streams of data. It is about the speed in the data and how rapidly it must be used to create real value [3].

4) **Veracity:** Veracity isn't just about data quality, it's about data understandability. If the data coming in large volume are not correct, they can create a problem and are of no use. So, it should be correct. There are three types of big data. Structured, unstructured and semi structured. Similar entities are grouped together in structured data. Fig.2 illustrates the three primary layers involved in Big Data computation.

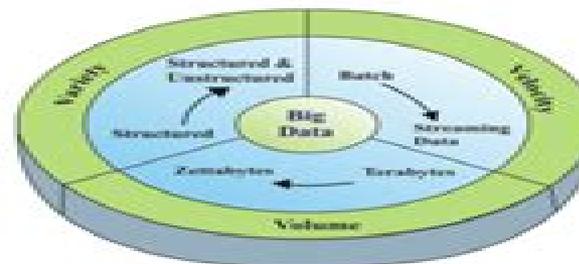


Fig.1. Structure of Big Data

The rest of this paper is structured as follows. Section1 discusses the growth and significance of Big

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