Practical#10

Name: Saurin Anilkumar Prajapati

Roll No.: 19BCE239

Course Code and Name: 2CS702 Big Data Analytics

Batch: D1

Aim:

Case study: Use following platforms for solving any big data analytic problem of your choice. (1) Amazon web services,(2) Microsoft Azure, (3)Google App engine

Procedure:

Big data's characteristics, such as its enormous amount, as we saw in the last practical, prevent traditional databases from being able to handle, analyse, or process it. As a result, several massive data technologies, like Hadoop, have been developed. A huge dataset may take hours to handle with Hadoop since it processes data in chunks. However, the lengthy wait times can be reduced with the help of cloud computing services for big data processing, including Amazon's EC2, Google Big Data Services, Microsoft Azure for Big Data, and other comparable services.

In this practical we'll see some insights about how **Amazon Web Services (AWS)** can help in **solving this problem**:

1. AWS provides a broad and fully integrated portfolio of cloud services that help in building and deploying secure and scalable big data applications.
2. The creators don't have to own or maintain any hardware infrastructure.
3. Newer technologies added to the AWS services will be easily integrated into the application.

4. High availability guaranteed.
5. Can automate many manual and time-consuming tasks, S3 connectivity provides for agility and flexibility required to combine different data and analytical approaches.
6. Most cost-effective.
7. On-demand data access to services.
8. Custom rules can be defined by the user.
9. Easy to integrate ML using the Amazon SageMaker.

Conclusion:

By performing this practical we learned how cloud computing services can be integrated to further enhance the data analytic capabilities.

Thank You