Name: - Sonam Abrol

Module 01 Course Project

10-5-2019

# Introduction

Database management has become an important component of cloud computing in recent years. Cloud DBMS is a database management system which acts through cloud computing. The number of these DBMS which act through cloud computing is expected to increase in the future. “A Cloud database management system (CDBMS) is a distributed database that delivers computing as a service instead of a product. It is the sharing of resources, software, and information between multiply devices over a network which is mostly the internet.” (Kadam 2014). In this paper I will be talking about some of the advantages of DBMS.

# Advantage I Reliability

Distributed databases are more reliable. In this database system is distributed across multiple machines. if a failure occurs in one area of the distribution, the entire database does not experience a setback. For example: - If my database is stored only in one device and that database breaks for some reason, I won’t have any way to move forward with my work. But in distributed DBMS data is available on multiple machines. So, if one machine is down my I don’t have to worry about losing my data, and I can move forward with the work.

# Advantage II Growth

distributed DBMS easily growable. What I mean is we can easily make another node of database. For example: - If I have a company in NJ and now, I am opening one more company in VA I can easily do that. “it’s simple to create an additional node within the database, making distribution highly scalable.” (Raja 2014).

# Advantage III Cloud elasticity

One big advantages of cloud DBMS is its elasticity. Elasticity in cloud DBMS means the less we will use, the less we will pay and the more we use, the more we pay. Elasticity is a dynamic property that gives permission for a system scale to be increased on demand. For example: - If my company systems will be continuing to run I without having option to stop I will be paying tremendous amount of money. If I will be paying for what I use this will save the company good amount of money. This is a great way to make the company grow.

# Conclusion

Initially, cloud DBMSs will benefit for vendors desiring a less expensive platform. As cloud infrastructure with DBMS is getting advanced especially in scalability, elasticity, reliability and security. Cloud DBMS platforms will show marked reductions in cost, compared with implementations within the IT industry. Cloud DBMS can be easily affordable and manageable with its great advantages.

# References

Kadam, M., Tambe, Sh., Jidge, P., Tayade, E., (2014). Cloud service based on database management system. *International Journal of Engineering Research and Applications*, *4*, 303-306.

Raja, A. (2019, May 14). What Is a Distributed Database? Why Companies Switch to Distributed Databases. Retrieved October 5, 2019, from https://www.atlantic.net/cloud-hosting/about-distributed-databases-and-distributed-data-systems/.