A Review Paper On Cloud Computing

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ABSTRACT

Cloud Computing promotes economic growth, business growth and supports the development and success of IT industry. In this research article we explore the concept of cloud computing. It includes services, challenges, issues, architecture, benefits. Services are IAAS, SAAS, PASS defines in cloud computing. Clouds can be public, private and hybrid. These categories of cloud tells us about the access of the data stored in it.

Keyword: - *Clouds, IAAS, Hybrid, architecture, Issue, Security.*

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1. INTRODUCTION

Recently ,Cloud Computing is changing the face of IT industry and networking sectors. Cloud Computing delivers the services Storage, Server , Database , Networking .We cannot say Cloud Computing is a technology reason behind in it stores data on internet or we can say clouds that is performing by Internet .Cloud Computing allows the people to store their data that can be anything in the clouds. Like Amazon and many more Sales forces companies store their bulk of data in the cloud for their convenience. In Cloud Computing no need for resources in large amount needs only 2 3 computers and the internet on it. For Cloud Computing cost decreases purchasing and maintenance of systems. Cloud Computing gives many useful uses in IT like creating new applications, Store, Backup, Host Websites and blogs [1].

Now a days, Cloud Computing is getting so popular in IT industries. It helps to improve Cost efficiency , Speed , Productivity etc.. Cloud Computing provides several types of services like IAAS, SAAS, PASS etc. In the next section we are discussing these services and components of cloud and explaining in the form of architecture. One of the best examples of a private cloud is Eucalyptus Systems [2].

2. HISTORY

ACO algorithm was introduced by M. Dorigo et al. He was highly inspired by the collective behavior of ants in finding a shortest route to reach to their food source. Intellectual capabilities of ants are finite as they are simple creatures. Day to day chore of finding food sources of good quality and shortest route for such food resource is a challenging task for individual ants. They are not clever enough to manage it efficiently. On the other hand ant colonies can act intelligently to perform these tasks in more efficient, better and in an effective manner. Ants are simple and tiny creatures when seen individually but when we consider ant as colonies they are brilliant enough to respond quickly to the environmental changes.

3. ARCITECTURE OF CLOUD

This section contains the services of Clouds and the components of cloud reference. This architecture helps us to easily understand the working of Cloud Flocking centring

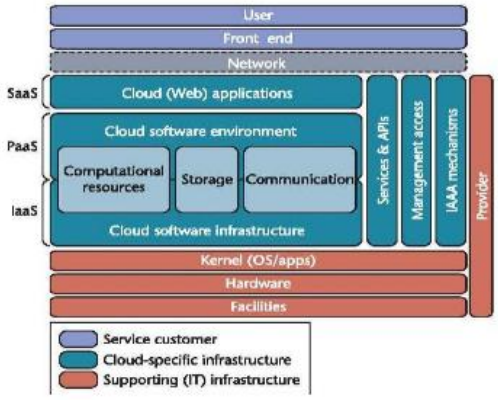

Fig. 1. The cloud reference architecture.

Cloud computing services works little different, Basically all depends upon the provider. The goal of the cloud computing is to take benefits from the services that are offered to us, and the technologies as we are not having deep knowledge of technologies, still we are using it. Cloud Computing may be applied to solve problems in many domains of Information Technology like GIS (Geographical Information Systems), Scientific Research [3].

4. TYPES OF CLOUD SERVICES

4.1) Infrastructure-as-a-service (IAAS)

IAAS is the category of cloud in which you cannot buy any infrastructure like Servers , Virtual Machines,O.S. , Storage , Networks . User can simply pay rent and use them.

4.2) Platform-as-a-service (PAAS)

PAAS is the another category in which supplier supply the raw material in a supply chain. All trading partners are connected with each other . PAAS is designed to makes it easier for developer to create web applications without facing any problem and maintaining the infrastructure.

4.3.) Software-as-a-service(SAAS)

SAAS is the next step of PAAS in which we deliver the software applications supported by IT over the internet

5. BENEFITS OF CLOUD COMPUTING

5.1) Cost

At Low cost we get the better services .In other words we can say,it is really. Cloud computing eliminates the cost of resources and their maintenance.

5.2) Speed

It provides much faster speed as compare to other storage devices.

5.3) Productivity

In Cloud Computing, setup and installation of hardware and software is no longer needed.It saves time and money. Today every small companies tries to improves their productivity so that small companies can compete with large MNCs**.**

6. APPLICATIONS

1) Cloud Computing provides secure data storage.

2) This cloud provides infinite usage of internet to users.

3) Cloud Computing doesn’t need any high quality infrastructure or system for user and their use

The center is uniquely positioned to service the clients across the globe by deploying a Remote Control Unit that has the capabilities to communicate to a cloud-based architecture [4].

7. CONCLUSION

This research conclude that cloud computing is a technology that promises to offer best services for the ease of customer. This article discussed about the services and issues of cloud computing. Lot of research are still required in this areaIn particular, they do not implement the standard POSIX interface, and therefore introduce compatibility issues with legacy file systems and applications. Several research efforts have studied this problem [5]. As some issues like privacy and security are not yet been answered by the research of experts. I would like to say at the last, Definitely Cloud Computing affects the whole IT industry in 2 3 upcoming years. Though Cloud computing may face many challenges in the way to become the best it can ever become like insecurity of data people are very skeptical about the data is it safe or not ? And are there security measures taking place to make data secure. But no one can stop cloud computing from revolutionize the future. Moreover, cloud computing can help when there isn'tany physical data left to store like when you ran out of space in your hard disk or pen drives.

8. REFERENCES

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