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Review Of Research



CLOUD COMPUTING

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ABSTRACT:

This paper examines the technologies that follow in cloud computing as well as the system in company. Cloud Computing is a term that is used to describe a new class of network based computing that takes place over the web. It is basically a print on from service Computing, a



collection of integrated and networked hardware, software and Internet framework. Using the Internet for transmission and carrying provides hardware, software and networking services to clients. There are many types of cloud are available such as public, private, community & hybrid. Cloud computing can be viewed from two different

conditions. One is cloud infrastructure which is the building block for the up layer cloud application & other is of course the cloud application. Infrastructure as a service (IAAS) is the best layer of the cloud stack that serves as a foundation for the layers for their execution. This paper focuses on the cloud infrastructure including the systems and current research.

KEY WORDS: Cloud computing, types of cloud, infrastructure of cloud, cloud application, IAAS.

INTRODUCTION:

Cloud computing is the distributed computing on internet or delivery of computing service over the internet. Examples are Yahoo!, Gmail, Hotmail and so many. Instead of running an email

program on your computer. You log in to a web email account remotely. The software and storage for your account do not exist on your computer- it's on the service's computer cloud. There are three components of cloud available like client computers, distributed servers & datacenters. The clients are the device that the end user interacts with cloud. Three types of clients such as Mobile, thick & thin. The datacenter is a collection of servers where application is placed & is accessed via internet. Distributed servers are in geographically different places but server acts as if they are working next to each other. There are some applications where we use the cloud computing like networking sites, email sites, search engines and so many.

TYPES OF CLOUD SERVICE:-

There are four types of cloud available:

- **Public cloud:** - this is one based on the standard cloud computing model, in which a service provider makes resources such as applications & storage available to the general public over the internet. Public cloud services may be free or offered on a pay-per-usage model. Examples of public clouds include Amazon elastic compute cloud (EC2), IBM'S, Blue cloud, Sun cloud, Google App engine & Windows Azure Services Platform.
- **Private cloud:** - this is a type of cloud computing that delivers similar advantages to public cloud, including scalability & self service, but through a proprietary architecture. Unlike public clouds, which deliver services to multiple organizations, a private cloud is dedicated to single organization. Examples are: on premises IT footprint, cloud providers.
- **Hybrid cloud:** - this is a cloud computing environment which uses a mix of on premises. By allowing workloads to move between private & public clouds as computing needs & costs change, hybrid cloud gives businesses greater flexibility & more data deployment options. Examples: Google Computer Engine, Amazon Simple Storage Service (Amazon S3).
- **Community cloud:** - this is a multi-tenant infrastructure that is shared among several organizations from a specific group with common computing concerns such concerns might be related to regulatory compliance such as audit requirements or may be related to performance requirements such as hosting applications that require a quick response time.

Why cloud service is popular?

- + Reduce the complexity of network.
- + Do not have to buy software licenses
- + Customization
- + Cloud providers that have specialized in a particular area can bring advanced services that a single company might not be able to afford or develop.
- + Scalability, reliability & efficiency.
- + Information at cloud is not easily lost.

Cloud Computing Activities:-**Internet users who do the following activities online (%):**

Use WebMail Services:- 56%

Store personal photos:- 34%

use online applications:- 29%

store personal videos:- 7%

pay to store computer files:- 5%

back up hard drive to an online site:- 5%

CLOUD INFRASTRUCTURE:-

It refers to the hardware and software components such as servers, storage, networking & visualization software that are needed to support the computing requirements of a cloud computing model. In addition to this the cloud infrastructures includes a software abstraction layer that virtualizes resources and logically presents them to users through programmatic means.

In a cloud computing architecture, which refers to the front end & back end of a cloud computing environment, cloud infrastructure consists of the back end components

Cloud infrastructure is present in each of the three main cloud computing models- infrastructure as a service (IaaS), platform as a Service (PaaS), software as a service (SaaS). together these three models form what's often called a cloud computing stack, with IaaS as the foundation, PaaS as the middle layer and SaaS as the top layer.

- **Infrastructure as a Service (IaaS):-** This is a form of cloud computing that provides virtualized computing resources over the internet. in this model, a third party provider hosts hardware, software, servers, storage & other infrastructure components on behalf of its users. IaaS platforms offer highly scalable resources that can be adjusted on demand. IaaS environments include the automation of administrative tasks, dynamic scaling, desktop virtualization & policy based services. For example if a business is developing a new software product, it might be more effective to host & test the application through an IaaS provider. Once the new software is tested & refined, it can be removed from the IaaS environment for a more traditional in-house deployment or to save money or free the resources for other projects. There are some characteristics of IaaS such as

- o Resources are distributed as a service
- o Allows for dynamic scaling
- o Has a variable cost, utility pricing model
- o Generally includes multiple users on a single piece of hardware

• **Software as a Service:** - Software that is deployed over the internet. With SaaS a provider licenses an application TO CUSTOMERS EITHER AS A SERVICE ON DEMAND through a subscription. SaaS is a rapidly growing market as indicated in recent reports that predict ongoing double digit growth. There are some characteristics of SaaS such as

- o Web access to commercial software
- o Software is managed from a central location
- o Software delivered in "one to many" model.
- o Users not required handling software upgrades & patches.

• **Platform as a Service:** - PaaS can be defined as a computing platform that allows the creation of that application quickly and easily & without the complexity of buying & maintaining the software & infrastructure underneath it. There are some characteristics of PaaS such as

- o Service to develop, test, deploy, host & maintain applications in the same development environment.
- o Web based user interface creation tools helps to create modify, test and deploy different UI scenarios.
- o Multi tenant architecture where multiple concurrent users utilize the same development applications.
- o Tools to handle billing & subscription management.

CLOUD APPLICATION:-

Cloud application or cloud app is an application program that functions in the cloud, with some characteristics of a pure desktop app & some characteristics of a pure web app. A desktop app resides entirely on a single device at the user's location. A web app is stored entirely on a remote server & is delivered over the internet through a browser interface.

Cloud computing has been credited with increasing competitiveness thro' cost reduction, greater flexibility, elastically & optimal resources utilization. Here are a few situations where cloud computing is used to enhance the ability to achieve business goals.

- + Infrastructure as a service & platform as a service:- using an existing infrastructure on a pay-per-use scheme seems to be an obvious choice for companies saving on the cost of investing to acquire, manage & maintain an IT infrastructure.
- + Private cloud & hybrid cloud: - While in the case of test & development it may be limited in time, adopting a hybrid cloud approach allows for testing application workloads.
- + Test & development:- this entails securing a budget, setting up your environment through physical assets, significant manpower & time.
- + Big data analytics: - Retailers & suppliers are now extracting information derived from consumer's buying patterns to target their advertising & marketing campaigns to a particular segment of the population.
- + File storage: - cloud can offer you the possibility of storing your files & accessing, storing & retrieving them from any web enabled interface. At any time & place you have high availability,

speed, scalability & security for your environment.

- + Disaster Recovery: - this provides for a faster recovery from a mesh of different physical locations t a much lower cost that the traditional disaster recovery sites.
- + Backup:- this included maintain a set of tapes or drives, manually collecting them & dispatching them to a backup facility with all the inherent problems that might happen between the originating & the backup sites.

CONCLUSION:-

The conclusion cloud provides high quality infrastructure as service (IaaS), offered from two robust, and certified Dutch data centers. It is important to effectively carry it out. The cloud has a flexible construction with which the service can go much further than standard cloud products. As we have noted throughout this, cloud computing has the potential to be a disruptive force by affecting the deployment & use of technology. The cloud could be the next evolution in the history of computing, following in the footsteps of mainframes, mini computers, pc's, servers, smart cards and so many.

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