

## Cloud Computing Applications

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### ABSTRACT

Today is the age of Computing Technology in IT industries. Cloud computing which is based on Internet has the most powerful architecture of computing. It reckons in a compilation of integrated and hardware, software and internet deployment. It has various available a top grid computing and other computing. In this paper give a brief assessment of cloud computing and its applications by reviewing articles on cloud computing. The outcome of this review signals the face of the IT industries before and after the cloud computing.

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### I. DEFINITION

Cloud computing is the handling over of on demand computing services from applications to storage and processing power-generally over the internet and on a pay-as-you-go basis. Cloud computing is the delivery of distinct services through the internet. These products include tools and applications like data storage, servers, databases, networking and software. Rather than keeping files on a proprietary hard drive or local storage device, cloud based storage makes it possible to save them to a remote database. As long as an electronic device has access to the web, it has access to the data and the software programs to run it. Cloud computing is a popular option for people and business for a number of reasons including cost savings, increased, potency, speed and efficiency, performance and security.

### ADVANTAGES OF CLOUD COMPUTING

Cloud computing software offers companies from all industry a number of benefits, including the ability to use software from any devices in a completely seamless manner.

Cloud computing is far more than just locating files on multiple devices. Thanks to cloud computing services, users can check their email on any computer and even store files using services such as DropBox and Google Drive. Cloud computing services additionally make it possible for users to back up their music, files and photos securing those files are instantly available in the occurrence of a hard drive cash.

It also proposes big business large cost-saving possible. Before the cloud became a possible alternative, companies were demand to purchase, build and maintain costly information costly server centers and IT departments for fast internet connections, where employees communicate with the cloud online to finish their jobs.

The cloud structure provides particulars to save storage space on their desktop or laptop. It additionally lets improve software more speedily since software companies can effort their products via the web rather than via a more acceptable, touchable methods regarding discs or flash drivers. For example- Adobe customers can accessible applications in its Creative Cloud via an Internet-based support. This allows users to download new versions and repairs to their programs easily.

### DISADVANTAGES OF THE CLOUD COMPUTING

With all of the speed, efficiencies and innovations that come with cloud computing, there are naturally risks.

Security has always been a big concern with the cloud especially when it comes to sensible medical records and financial reports. While regulations force cloud computing services to beach up their security and agreement surveys, it remains an ongoing problem. Encryption protecting important data and information, but if that encryption key is lost or missing, the data be lost to view.

Servers kept by cloud computing companies may fall victim to natural misadventures, internal disturbs, and power outages too. The geographical reach of cloud computing cuts both ways: A blackout in California cloud

paralyze users in New York, And a firm in Texas could lose its data if some event drives its Maine-based provides to accident.

As with any technology, there is a training circuit for both employees and managers. But with many individuals accessing and manipulating knowledge through a single portal, inadvertent mistakes or errors can transfer over an whole system.

#### **APPLICATION OF CLOUD COMPUTING**

Cloud service provides provide many applications and uses in the field of art, business, data storage and backup services, education, entertainment, management, social networking etc.

The most commonly used cloud computing applications are given below-

##### **Art Application**

Cloud computing provide various art applications for quickly and easily design attractive cards, booklets, images. Some most commonly used cloud art applications are:

##### **Moo**

Moo one of the best cloud art application. It is used for designing and printing business cards, postcards and mini cards

##### **Vistaprint**

Vistaprint allows us to easily design various types printed marketing products such as business cards, Postcards, Booklets and wedding invitation cards, mugs, posters and even table cloths.

##### **Adobe Creative Cloud**

Adobe creative cloud is made for designers, artists, filmmakers and other creative professionals. It is suite of apps which include Photoshop image editing programming, illustrator in Design, Typekit, Dreamweaver, XD and Audition .

##### **Business Applications**

Business applications are based on cloud service providers. Today, every organization needs the cloud business application to build their business. It also ensures that business applications are 24\*7 available to users. There are many business applications of cloud computing which is following—

##### **Mail Chimp**

Mail Chimp is an email publishing platform which provides various options to design, send and save templates for emails.

##### **Salesforce**

Salesforce platform provides tools for sales, service, marketing, e-commerce and more. It also provides a cloud development platform.

##### **Chatter**

Chatter helps us to share important information about the organization in real time.

##### **Bitrix24**

Bitrix24 is a collaboration platform which provides communication, management and social collaboration tools.

##### **PayPal**

PayPal offers the simplest and easiest online payment method using a secure internet account. PayPal accepts the payment through debit cards, credit cards and also from PayPal account holders.

##### **Slack**

Slack stands for searchable log of all Conversation and Knowledge. It provides a user-friendly interface that helps us to create public and private channels for communication.

##### **QuickBooks**

QuickBooks works on terminology “Run Enterprise anytime, anywhere on any device.” It provides online accounting solutions for the business. It allows more than 20 users to work simultaneously on the same system.

##### **Data Storage and Backup Applications**

Cloud computing allows us to store information on the cloud and access this information using an internet connection. As the cloud provider is responsible for providing security, so they offer various backup recovery application for regaining the lost data. A list of data storage and backup applications in the cloud are given below-

##### **Box.com**

Box.com provides an online environment for secure content management, workflow and cooperation. It allows us to store various files such as Excel, Word, PDF and images on the cloud. The main advantages of using this box is that it provides drag ad drop service for files and easily integrates with Office 365, G Suite, Salesforce and more than 1400 tools.

##### **Mozy**

Mozy provides powerful online backup solutions for our personal and business data and records. It schedules automatically back up for each day at a specific time.

##### **Joukuu**

Joukuu provides the simplest way to share and track cloud-based backup files. Many users use joukuu to search files, folders and collaborate on documents.

##### **Google G Suite**

Google G Suite is one of the best cloud storage and backup application. It includes Google Calender, Docs, Forms, Google+, Hangouts as well as cloud storage and tools for control cloud apps. The most popular app in the Google G Suite is Gmail. Gmail offers free email services to users.

##### **Education applications**

Cloud computing in the education becomes very popular. It offers various online distance learning

platform and student information portals to the students. The features of using cloud in the field of education is that it offers strong essential classroom environments, Ease of accessibility, secure data storage, scalability, greater reach for the students and minimal hardware demands for the applications. There are the following education applications on cloud-

#### **Google Apps for Education**

Google Apps for education is the most widely used platform for free web based email, calendar, documents and synergetic study.

#### **Chrome books for education**

Chrome book for education is one of the most important Google's projects. It is designed for the purpose that it raises education development.

#### **Tablets with Google Play foe Education**

It allows tutors to quickly execute the latest technology solutions into the classroom and make it available to their students.

#### **AWS in Education**

AWS cloud provides an education- friendly environment to universities, community colleges and schools.

#### **Entertainment Applications**

Entertainment industries use a multi-cloud policy to interact with the target audience. Cloud computing offers various entertainment applications such as online games and video conferencing.

#### **Online games**

Today cloud gaming becomes one of the most important entertainment media. It offers many online games that run remotely from the cloud. The best cloud gaming services are Shaow, GeForce Now, Vortex, ProjectxCloud and PlayStation Now.

#### **Video Conferencing Apps**

Video conferencing apps provides a simple and instant connected experience. It allows us to communicate with our business partners, friends and relatives using a cloud-based video conferencing. The benefits of using video conferencing are that it reduce cost, increases efficiency and remove interoperability.

#### **Management Applications**

Cloud computing provide various cloud management tools which help administrator to control al types of cloud activity such as resource deployment, data integration and accident recovery. These management tools over the platforms, applications and infrastructure. Some important management applications are following—

#### **Toggle**

Toggle helps users to track given time period for a particular project.

#### **Ever note**

Ever note allows you to synchronize and save your recorded notes, typed notes and other notes in one comfortable place. It is available for both free as well as a paid version.

#### **Outright**

Outright is used by management for the purpose of accounts. It helps to track income, expenses, profits and losses in real-time environment.

#### **GoToMetting**

GoToMetting provides video conferencing and online meeting apps which allows you to start a meeting with your business partners from anytime, antwhere using mobile phones or tablets. Using GoTo metting app you can perform the tasks related to the management such as join meetings in seconds view presentations on the shared screen, get notification for upcoming meetings etc.

#### **Social Applications**

Social cloud applications allow a large number of users to connect with each other using social networking applications such as Facebook, Twitter, LinkedIn etc.

#### **Facebook**

Facebook is a social networking website which allows active users to share files, photos, videos, status more to their friends, relatives and business partners using the cloud storage system. On Facebook, we will always get notifications when our friends like and comment on the posts.

#### **Twitter**

Twitter is a social networking site. It is a micro blogging system. It allows users to follow high profile celebrities, friends, relatives and receive news. It sends and receives short posts called tweets.

#### **Yammer**

Yammer is the best team collaboration tool that allows a team of employees to chat, share images, documents and videos.

#### **LinkedIn**

LinkedIn is a social network for students, fresher's and professionals.

#### **REFERENCE**

- [1]. Sarna, D. E. (2010). *Implementing and developing cloud computing applications*. CRC Press.
- [2]. Bera, S., Misra, S., & Rodrigues, J. J. (2014). Cloud computing applications for smart grid: A survey. *IEEE Transactions on Parallel and Distributed Systems*, 26(5), 1477-1494.
- [3]. Apostu, A., Puican, F., Ularu, G. E. A. N. I. N. A., Suciu, G., & Todoran, G. (2013). Study on advantages and disadvantages of Cloud Computing—the advantages of

Telemetry Applications in the Cloud. *Recent Advances in Applied Computer Science and Digital Services*, 118.

- [4]. Mirashe, S. P., & Kalyankar, N. V. (2010). Cloud computing. *arXiv preprint arXiv:1003.4074*.
- [5]. García-Peñalvo, F. J., Alier Forment, M., & Lytras, M. D. (2012). Some reflections about service oriented architectures, cloud computing applications, services and interoperability

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