Research Paper ,

"Essentials of Cloud Computing in Business Environment"

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Abstract

Now a day Cloud Computing plays an important role in business environment. Cloud computing is the on-demand availability of computer system resources, especially data storage in computer system. Cloud computing is the delivery of computing services including servers, storage, data, databases, networking, software, analytics, and intelligence over the Internet. Now a day we are using cloud computing in different types of business, any organization like manufacturing industry,E-Commerce as well as for our personal use. If we want to use an online service such as send e-mail, edit documents, edit images, edit videos, watch movies or TV, listen music, play video games, or store pictures, images and other files, it's likely that cloud computing is making it all possible behind the tasks. With help of Cloud computing we can store and protect the data easily till long period. According to a study by the International Data Group, 70% of businesses are already using the technology i.e. Cloud computing, and 18% say they plan to implement cloud-computing solutions at some point.

In digital 21st century, it is more difficult for individuals and organisations to keep all of their important data, information, Documents, any programs details, and systems up and running on in computer servers. Cloud computing is best solution to keep or store all business related data in cloud services. Almost people already using a variety of cloud computing services like Gmail, Google Drive, Whatsapp, Facebook and Instagram. With help of all these services, users can send or receive their personal data like message, video, and any documents. And as useful as these applications are for personal use, as well as even more valuable for businesses that need to be able to access large amounts of data over a secure, online network connection.

Key words: Cloud Computing, Business, Cloud services, Network, Internet, Storage.

Objectives of the study

- To know the concept Cloud Computing.
- To know what are component of Cloud Computing.

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- To know the essentials Role of Cloud Computing in business environment.
- To know how the Cloud computing is helpful for storing business related important effectively.
- To know how the Cloud computing working effectively.
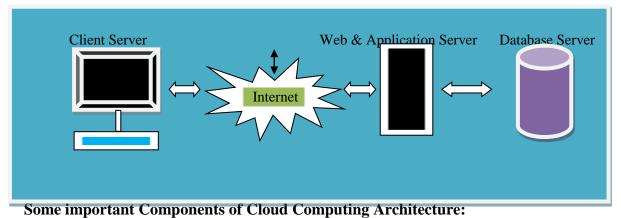
Introduction of Cloud Computing

Cloud computing is an integral aspect of any computer service. It helps in the delivery of storage, database, software, analytics, networking, and intelligence over the internet or "cloud" for backup storage. The importance of cloud computing is helps to back up the data over the internet. It is used for private and commercial purposes. Cloud computing helps in securing data over the cloud.

Organizations of different types, sizes, and industries are using the cloud for a wide variety of use cases, such as building customer-facing web applications, data backup, sending email/SMS notifications, virtual desktops, software development and testing, big data analytics, and data recovery.

Cloud computing helps in business more efficiently and upscale our business as per the market changes. Cloud computing is beneficial for commercial and personal purposes.Cloud computing is important for business enterprises. Cloud computing help to business to access the stored on the internet or in the internal infrastructure of the enterprise. Cloud computing or cloud storage technology is simply a way of storing, managing and accessing the data and other programs over the internet instead of using a computer's hard drive.

Basic Architecture of Cloud Computing:

Following figure shows the basic architecture of cloud Computing

Some important Components of Cloud Computing Architecture:

Client Server: It includes Devices and Server like Laptop, Desktop, Smart Phones etc.

Internet: It includes Analytical tools, System Management, Web pages, Website, Web application etc.

Web and Application Server: It includes Good internet connection, Firewalls,

Antivirus, Security services

Database Server: Database Storage is where the data resides within a cloud application.

Cloud Computing Applications

Cloud service providers provide various applications like

1) Art	4) Business	7)Data storage and backup services	10)Medical Fields
2)Education	5)Entertainment	8) Management social networking	11)Cyber security
3)Photo Editing	6)Antivirus	9)E-Governance	12)E-commerce

Cloud Computing Platforms/Services

1.Google Cloud	4) Alibaba Cloud	7) IBM Cloud	10) DigitalOcean
2.CloudLinux	5) Oracle	8) Red Hat Cloud.	11) Microsoft Azure
3.AWS	6) VMware	9) NetApp Cloud	

Research Methodology

Present review is based on review analysis of news reports published online and/or in print editions. The literature serve as importance of Cloud Computing in business sector and essentials role in business communication. Present review based on the chat with Business and customer from the E-commerce and other business sector area. The current research has been undertaken to describe the scenario of Cloud Computing, analyze the new trends and latest technology of Cloud Computing. The study further examines the key variables imperative for the success of Cloud Computinge in business environment.

Future of Cloud Computing:

- vast and unique
- powerful
- expansive
- continuously growing

Why the Cloud computing is important in Business Sector:

The main reasons why cloud computing is important for business is that it allows organizations to scale, to maintain flexibility, and focus their efforts on different types business operations.

1)Cost-Effective

Cost-effectiveness is one of the primary reasons why cloud computing is important for different types of business. The cloud computing comes from the added functionalities which are inherent to cloud environments: Agility, Scalability, Optimized DevOps

2)Security

Almost cloud computing service providers are provide the facility like our data,documents security. With help of cloud computing we can secure the data easily.Unauthorized user can't access our data easily. Nearly all of the top organizations are utilizing cloud computing services.

3) Flexibility

Cloud computing promotes flexibility in the workplace. It allows the employees to be flexible enough by accessing the data from home.

Now a days organizations and business sector have the technical ability to scale on-demand as the market changes as per customer. This on-demand flexibility of scaling capabilities is possible through the flexibility of cloud computing technology.

4) Continued Industry/Business Growth

growth in computing capabilities and end-user functionalities will directly impact on business across nearly all industries .Cloud computing is helpful for continued industry business growth.

5. Saving Costs

Cloud computing is also known as save the capital costs. Some of the integral benefits of Cloud computing is popular reducing the on hardware or software purchases that are required for cloud computing. The time to spend on computing, storage, and networking is reduced, which has exempted plenty of costs. It also reducing reducing operational costs, maintenance cost.

6. Multiple Service Offerings

Cloud computing is a very popular service provider that has been different types of facilities. It has a great platform of service providers in the market who have defined what is the need for
cloud computing. Multiple service providers offer cloud computing. They are:

- Microsoft Azure.
- Google Cloud
- Google Cloud Platform.
- Adobe Creative Cloud
- VMware
- IBM Cloud Services etc.

7.Easy Accessibility of the Data

Cloud computing is an easy-to-access computing system. The cloud computing system is easy to access , to manage, to retrieve and to save the data. It helps to access online data easily the organizations.

8)Increased Collaboration

Cloud computing provides an optimal solution to help teams work faster and at ease. This enables flexible scheduling of work. The tasks can be shared amongst the different collaborators to ensure proper work balance between colleagues from different time zones.

9) Mobility:

Cloud computing allows mobile access to corporate data via smartphones and devices, which considering almost people are using smartphones globally today. So it is one of the is a great way to ensure that no one is ever left out of the loop. Staff with busy schedules, or who live a

long way away from the corporate office, can use this feature to keep instantly up to date with clients and there co-worker and they can access the data, retrieve the data, insert the new data easily.

Quality Control:

There are some things as failure of a business as poor quality and inconsistent reporting. In a cloud-based system, all documents are stored in one place and in a single format. With everyone accessing the same information, you can maintain consistency in data, avoid human error, and have a clear record of any revisions or updates.So we can maintain

Conclusion

Cloud computing is very important in today's time. It helps people to gain knowledge about how data can be stored , retrieve ,and secure even without the presence of hardware. Cloud computing is mainly used in small-scale or medium-scale industries. Cloud computing is growing so fast because of its virtual medium. Cloud computing is an integral aspect of any computer service. It helps in the delivery of storage, database, software, analytics, networking, and intelligence over the internet or "cloud" for backup storage. every successful organization has a presence over the internet for which they require a data center irrespective of their size.

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