Theme:-

The Gleam of Cloud Computing

Understanding the Cloud Computing

These technological era facilitates each and every individual to unleash an unlimited potential. In these times of technological advancements there is a whole new world out there for your every need , you just need to name it and you'll find numerous alternatives available. Just like a penny has two faces , each technological advancement also have some .banes and boons as well. As the technologies got advanced , so did the liabilities which mainly includes accessing data be it personal or professional through unfair means Another liability included over charging the naïve customers for things which are not even needed by them , which increased the final amount to be paid increases exponentially. To ensure that these liabilities are not focused continually, a new concept named " cloud computing " was introduced. Simply put cloud computing enables the user to keep an eye on what he truly wants and just get that , this concept eliminated the total possibility of over charging. On a huge managerial level , a small amount of data , memory processing speed is not sufficient and most importantly needs of an organization are dynamic , so buying a fixed amount of memory , databases , infrastructure is not beneficial for The whole organization and to keep an eye on each and every aspect of the user's need is also not possible. So in these dilemmas , cloud computing is like a silver lining in dark clouds. Rather than owning their own computing . infrastructure or data centers, companies can rent access to anything from applications to storage from a cloud

services provider . One huge benefit of cloud computing is that the organizations do not need to purchase any kind of the resource before hand , they can purchase any kind of resources solely according to their needs and they can even decide the time when they'd buy which enables the organization to monitor their virtual expenses , they get relieved from the problems of maintaining there infrastructures , memory. There is a wide range of cloud computing services , from the basics of storage, networking, to natural language processing and artificial intelligence. For a user minor details like operating systems hardware and software is like fiddle That's why the term " cloud " was added to computing term ,it was inspired by the term old telecom network schematics. Cloud computing changes dynamically according to the need of user and it basically tackles the problem in which you can easily maintain your distance from the hardware .

whatever you need can be delivered to you virtually , in these challenging times of covid – 19 pandemic , each and every person is slowly but surely adapting to the " new normal " any virtual need of the user can be met via cloud. Each and every sector , be it private or public , each one of them is suffering. The covid-19 pandemic has pose a differently new challenge which has rarely been posed in earlier times. Covid-19 pandemic has created a plethora of challenges , and the one who meets those challenges effectively and efficiently in these tough times effortlessly prove itself to be the almost best alternative to deal with any kind of adversities. But each viewpoint is different , what might look as an asset to one may look as a liability to another. Cloud computing is a step into the future . As world is changing with each passing second so our probable ways to tackle a situation should also increase , cloud computing opens up many ways .

if a proper use is made of cloud computing it can transform an organization's virtual infrastructure and can easily reduce the excess expenses , which done on an initial level at every step can make a humongous change in expenses. Everything depends on how you utilize your power. Be wise !

- Parul Mehra (BCA 1st Year 1st Shift)

Cloud Computing During Pandemic

The term cloud computing is a whole mesh of IT resources that is, an organization does not need to pay exclusively to buy resources for their cause in spite they can rent and freely work it on. As precedence the user can access more storage and more resources by just paying a bit more on internet.

Maintenance costs, power consumption, license keys all will be minimizes to a PC with a small payable amount.

Cloud Computing During Pandemic :-

As the covid pandemic has changed the world scenario all of a sudden, all the resources got high demand resulting in scarcity. Whether these are the medical resources or the man power requirement, the whole chain supply got stuck. These resources were never be supposed to required by the majority population. Here cloud computing did also play the role effectively. Many mobile applications, websites got into execution particularly for the covid purpose. A kind of virtual agent capability got into play. Chat bots were there to connect with the people by guiding health tips and diagnosing the virus symptoms, That if the patient has fever how much is the temperature, is their the need for covid test and all. All these developing and designing made the platform rise. The more people working from home crowded the traffic online for the services. Though it challenged the providers too for assuring the sustainability of platform during the increase in demand. more efficient dedicated teams were brought into play to handle the traffic. Providers provide collaboration and conferencing services at a discount or for free, demonstrating the power of new technologies such as virtual reality to make virtual meetings feel more real or forming new partnerships with telecom providers to ramp up their telco cloud offerings.

As the high volume demand for CCE (cloud computing environment) services cause a huge scarcity of resources, the providers got to focus more on the 'data accuracy'. Such as many websites providing necessary leads nearby must ensure the verification first.

Amazon web services (AWS) accounted for 55% of the company's operating profit in the second quarter (Q2), 2018. The migration of applications services to CCE is anticipated to increase at a significant compound annual growth rate (CAGR) of 22.59% during the years of 2019 to 2022. This statistic may change due to the current coronavirus outbreak, with a possible increase in this percentage. The covid pandemic thus minimized the gap between information technology capacity and the business demand resulted there is more demand for the popular services like SaaS and PaaS in CCE. On other side there are many business models in market such as business to consumer, business to business, business to government. All these as experienced a bulk ratio are more supposed to be extra secure to retain data privacy, applications, personal devices, internet etc.

Conclusion :-

As the pandemic had increased traffic of all the services online thus servers must be so able to handle crowd and providers must ensure the safety of personal data. The huge gap between pre-covid and post-covid market must be considered and the changes be implemented accordingly. More guidelines more awareness would be spread among the user as each one is vulnerable to the attackers. Though the pandemic seemed to boost up the CCE unprecedentedly over time.

- Vipul Bhardwaj (BCA 1st Year 1st Shift)

jims
Sector-5, Rohini, Delhi

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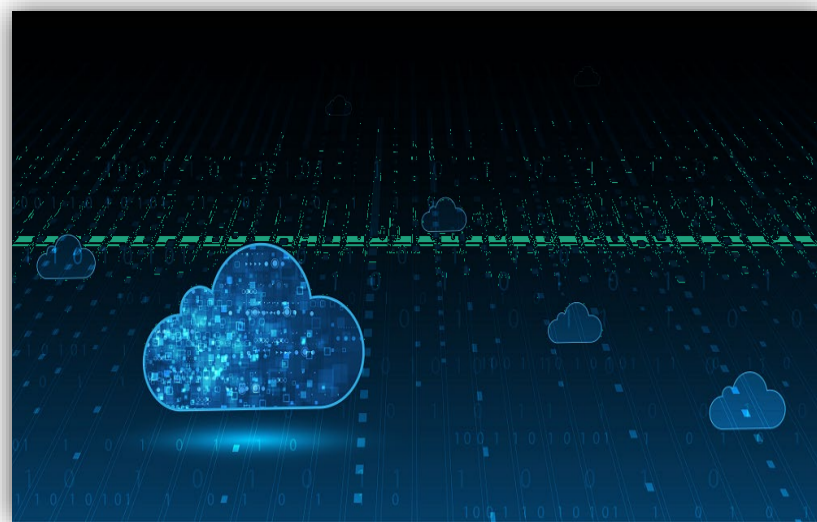
Future Scope And Implementation

Cloud computing is one of the most ongoing IT trends today. This is due to the very fact that cloud computing has helped several enterprises to save lots of money while adding to the convenience of the users. Anyone browsing the Internet or its applications is using cloud computing.

Over the past few years, the longer term of cloud computing has changed drastically. Today, the planet is strongly connected with each other, with the assistance of digital technologies. This is one among the first reasons why the scope of cloud computing changed. The number of jobs, technologies, and research investments required to determine the cloud computing future scope, has also increased. This is why we encounter many impressive trends in cloud computing.

To begin with, the longer term of cloud computing in education and industries around this domain are going to be ready to witness the facility of sound cloud computing services. Better cloud services are often categorized into three types: infrastructure, platform and software. These are three important sorts of services employed by user-friendly and old organizations. When more and more services are ready to support these facilities, it becomes easier for organizations to shift. In the end of the day, more schools and colleges will start to leverage the perks of cloud computing.

One of the foremost important areas of dialogue around cloud computing technology would be security. It is important for service providers to make sure that the info is stored both safely and securely. The future of cloud computing jobs is very massive. Companies will need skilled specialists who can promise security altogether stages of cloud services. It is also important for service providers to make sure that cyber-attacks are kept cornered

Even small companies that don't prioritize security got to change their business model. Finally, we'd like to specialize in the longer term of virtualization and cloud computing. This is a stimulating bond that has many scope for research and development. All these improvements got to be provided across all channels within the cloud. And, it's important for the service providers to make sure that within the cloud. And, it's important for the service providers to make sure that their cloud technology meets these standards. Virtualization and cloud can bring back light a hybrid IT system, which may be a challenge and an enormous problem today. When hardware expenses are limited and hamper to the services offered by the cloud, there'll be more cost-cutting and savings. In fact, the way data must be stored are often controlled using algorithms. It will not need the support of humans.

Because of all this we can say that the scope of growth for cloud computing is expansive. More and more organizations got to prioritize the utilization of this technology. In fact, they have to restructure and invest in coding standards which will support seamless migration into the cloud. Also, cloud computing is strongly related to concepts just like the internet of things. When data gets stored within the cloud, it becomes easier for IoT to make sure performance, security, and functionality. If the network is fast, everything else about the utilization of cloud computing will fall in situ.

On the entire, cloud computing is here to remain. Businesses got to attach this technology and grow with it. The technology is both powerful and inspiring. In the end of the day, it proves to be an economical way of executing services for several businesses, both big and little. Since cloud computing enjoys a much bigger scope, mainly in terms of reachability, it's sure to have a grand future. Yet, it all depends on the technological decisions made by the merchandise owners of companies

- Ishika Gupta (BCA 1st Year 2nd Shift)

Fun Facts

- ➢ 78% of U.S IT decision makers trust the security of the cloud.
- ➢ 80% of the companies who have implemented cloud have seen improvement and rise in profits within 6 months.
- ➢ 2014 was the first year when majority of the workloads were on cloud.
- ➢ Nearly 50% of U.S Government agencies use the cloud
- ➢ Within popularly rising virtual currencies like bitcoin and dogecoin baking firms producing the most activities within cloud.
- ➢ AWS is the largest provider of public Iaas cloud at just under half of the market.

- ➢ Cloud infrastructure services are the fastest growing cloud services at over 40% growth.
- ➢ Small organisations are more enthusiastic about cloud business intelligence which is a tool for measuring business growth that are cloud based.
- ➢ In 2020, cloud computing has more than 40 zettabytes (1 zettabytes = 10^{21} bytes) of data which is going to increase double in coming years.
- ➢ Only 16% of people in the world rightly know about cloud computing that is a place to store, share and access data. That means 80% of people never knew what cloud computing actually is and why it is used.

- Abhishek Kumar (BCA 2st Year 1st Shift)

ROLES & RESPOSIBILITIES

- **PROGRAM INCHARGE**
  DR. PRAVEEN ARORA

- **EDITORS & COORDINATORS**
  ANKIT SINGHAL & ABHISHEK KUMAR
  (BCA 2nd Year 1st Shift)

- **FACULTY INCHARGE**
  MRS. PRIYANKA GANDHI

- **DESIGNER**
  AKSHAR BISHT (BCA 1st Year 2nd Shift) &
  ANKIT SINGHAL (BCA 2nd Year 1st Shift)