

Security Issues In Cloud Computing: Review Article

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Abstract:-

cloud computing is an internet based services that is allow to provide and the share of resources and data among various devices. it is widely used in many organization . In today it is become more popular because it provide lot of benefits to information technology(IT) of an organisation how it is organised and managed.

Cloud computing provides huge benefits such as on demand self service, resource can be shared among multiple user from remote locations. Services can be measured by meter and billing according to the usage. proper controlling and reporting for all the rented services.

It provides lower cost, low maintenance cost, low software cost, maximum time availability and reliability, unlimited storage and easy to maintenance . We can access from any location. It can be execute fast , high flexibility and scalability. High use of cloud computing is the reason of security issues in the cloud computing.

In today security issues become a big challenge . cloud computing should be secure and safe for the user that they can access anything. In this paper we will discuss security issue and it's solution is critical because the confidential data of the user.

Keyword:-

Cloud computing, Security, Web service, Saas , Paas, Iaas, Privacy ,Information security, Internet ,Secure storage.

Introduction:-

Cloud computing is a new services that allow customer or user to store and use access computing resources and data by using internet better than local drive which may be costly. Cloud services stores users data to reduce cost because users don't need to get an overpriced computer with larger memory. It also helps to enhance the storage capacity because users can use more than one cloud to store their data into memory and reduce cost. According to

NIST cloud computing is a model for convenient, ubiquitous, on demand network access, to shared pool of computing resources. ex- Network, storage, server, application services these can be supply and can be released with minimal management effort or service services that provide through the management with minimum effort. Many users never realized that it can be loss or damage the data. even maximum users not even knew where the data is stored and how the cloud service provider managed the data. it also use on demand pay per use service.

When we use cloud services users handle the confidential data to the third party. Just think once may be data is secure or not when it is managed by the third party. Security issues are arrived due to the absence of alertness when the user are using cloud services provided through cloud service provider.

In this paper we will discuss issues and challenges in the cloud computing. In the next section we will discuss the literature review of cloud computing. In next section we will describe the issues, model and solution. Finally last section we will describe conclusion and acknowledgement of review paper of Issues in cloud computing.

Literature Review:-

Service model:

1. Software as a service (SaaS):- It is the 1st layer of cloud service model. The server that provide services developed the software on the cloud infrastructure allow the user through the various devices by web browser. users can't managed cloud infrastructure, network, security[3]. It help user to provide licence in low costs as compared to monthly fee for the application in cloud service.

2. Platform as a service (PaaS):- It is the middle layer of cloud service model. It provides users a software platform to design, develop and test their work without any issue of the virtual server of cloud service provider (CSP)[1,3]. since user can control their application that provided by the provider service.

3. Infrastructure as a service (IaaS):- The user must be allowed to rent the process, storage and resources of computing and run any software which is the part of operating system and have control over that operating system and network. It has some storage and computable methodology.

Deployment Model:-

Public cloud:- The structure of public cloud is available for general public where user can use the internet by the cloud. it is bought from the cloud merchant. The structure of customer is invisible[18].

Private cloud:- Internet user can use private cloud, outside users can't access the organization. Private cloud is more secured than public cloud[18].

Hybrid cloud:- It is composition of Private , Public and community cloud[7].

Community cloud:- Those organization which have same policy, target , objective are related to community cloud. It is a sharing property of data centre that can be used by all user[19][20].

Security Issues or Challenges:-

Safety:- safety or security is the major issue in cloud computing . When we send the data from one cpu to or even through by the hard disk it's horrible less security of data. Security include the issues like confidentiality, privacy , Phishing[17].

Necessity of continuous connection:- Service rented through cloud computing need continuous internet with good transmission. This is not possible of better connection of internet in everywhere. It is the problem of service availability.

Government and regulation issues:- Uses have no knowledge where the location of data and resources. Different countries having their rules and regulations. Any legal issues appear it is very difficult to be handled that where the data should be sorted it need to be considered very carefully because users and service provider.

Application issue:- Cloud service provider should be done monitoring and maintenance that cloud data is secured and not affected by any envious code . Hackers and attackers can't be able to steal the information or not even damage the users data.

Threat issue:- Data need to stored in different localities for providing redundancy. Due to the movement of data causes threats. personal data should be secured from threats.

Solution for security issues:-

Secured cloud service provider:- The user should ensure that they have right service provider. Users choice should be well established and experienced service provider. We can trust on service provider like Google, Microsoft , Amazon web services and IBM[22].

Unauthorized control:- Only authorize user have right to access the data. service provider should verify every time that data which can accessed by the user. It provide secure environment for storing confidential data.

Checking of Security events:- The user need to be legal contract between service provider and user that if there is any accident of sensitive data that is stored in the cloud then user have authority that it can claim. Cloud service provider and users must have legal contract with all details before using the cloud services that is provided by the provider.

Conclusion:-

In this paper we discussed cloud computing properties , models , benefits , issues and challenges . Now days so many larger companies using cloud service for their business perception. The main concern in cloud computing is security for the user who use cloud services. There need to be proper security for the security model in cloud computing that cloud service provider. Due to increase the use of cloud service the user should ensure for good security technology. Our desire for better work and give good knowledge of challenges of cloud computing a far better way of research.

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