Midterm Examination.

Introduction to Cloud Computing - C5360

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Ana

API is nothing but it called as a Application Programming Interface. It is an "interface" blu two applications or services to communicate with one another. An API delivers user response to a system and sends the system's response back to the uses They allow Capabilities of one computer program to be used by another They allow us to share impostant data and expose practical business functionally Dio devices, applications and individuals One of the prominent examples of API is Twitter Bots. There are huge range of bots on towitter. Twitter bots are accounts that automotically tweet (or retweet), forward and send direct messages based on. software instructions. One of bots is netfix Bot: Tweets when new content is released on Netflix. Ting care Bot: Sends hously remainder to Anink water, strech, and etc.

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2. And cloud computing system is composed of a set of layers upon which application de build.

> infrastructure, Platform, and roftwere. Based on these three layers => There are 3 com cloud computing models are devised.

Infraetructure as a Service (laas): This model provides infrastructure related services and responsible for handling hoodware-related issues, power and etc. in data centres. it accommodates mornory, CPU, and additional hardwale reportes. Amazon web services is pioneer laal. Rackspore, Terremark, ho Chrid etc. all some companies based on Jaal. Jass is delivery of computer infrastrubace as a service

Platform as a Service (Paas): This model of the makes all of facilities required to support the complete life of building and delivering web applications and services are available from internet. Her sonice provides provides a platform to clients, enabling them to develop our and manage applications without need to build and maintain infrastructure such software process typically

Openshift, Aporche Stratos, ATR+, Fleriscale all come companies which use Paas.

Saal (Saftware as a Services): This is a software distribution model in which applications are hosted by vendor or service provider and made available. to customas to over internet. You only need a web browser to access the application, it does not required hardware purchase or software installation. it provides quick operation service. Salesforce, Dropbox, Google Apps. etc. ale some Champles of Sas.

laal is cost effective recompanies of all sizes leverage the benefits, which include affordable access to enterprise - class solutions, predictable cost Structures and Rapid Scalability. Whereas some Though Saal & Paas are Chapper Compared to las but effectiviness matters in case of last. In I was model uses can have fuel access upon hardware required.

Elastic compute cloud (Ec2):

it is past of AWS r that allows used to hend vistual computers on which to the run their own computer applications, it encourages scalable deployment of applications by providing a web services theoregh we which uses can book an Amazon machine Image to configure vistual machine which in amazon busion as Instance, containing any software deribed. It is simple web service used for which allows us to obtain and configure cappity with minimal friction. Uses can on demand can sent vistual server per hour and use it to deploy his her own applications.

S3 (Simple Strage service)

\$3 is the object Strage service that allows you to block public access to all of your objects at backet. To ob give the access. It is object storage built to spree and retrieve any amount of data from anywhere.

it is a key value and document database. The defence and due able database with built in security, buckup and sustole, and in memory caching tel internet scale applications. It is a NOSBL database it is often used for low scales operations because it is simplicity, but it can handle ultra high scale operations.

Cloud computing is simply on BAY AS 400, 40 wells and customers must have to pay for only for their way of use of cloud sorrices. • a users can use software application etc. without any cost because property source remains to cloud provider, cloud a service components are economical is false it is based on usage of users

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- 1) Resocusces will be challed in traditional use whereas in cloud computing Resonaces deliver services for every users according to their demands
- 2) Cloud has better performance compared to traditional grid.
- 2) In traditional way, allocation of multiples servers onto a cost single task of job whereas in cloud, virtualization of servers is one server for many texts
- 4) Tark all single large in grid whereas small & medium in Class-computing.
 - 8.) Vistualization of Lata & computing resources in gold, whereas vistualization of hardware and software platforms.

6. And
The inhulion of Reacticity is to mouth the services allocated with actual amount of resources Needed at any given point in time. it is ability to sapidly and dynamically alocate cloud resources, including compute, storage and memory estruces, in reponse to changing demands Scalability handles changing needs of an application within the confines of infrastructure via statically ordding of semoving resources to meet applications demands if needed and demand increases Storage can be increased. These are much useful as perdemand and user intrest we can updata the sequirement in cloud, and this can't be ofthe in traditional models. If demand increases the usee can manage his model using these two.

for example, running & storing application. Application needs opecific environment to eun , including Computing power , VM's and Storage space

Because the cloud is elastic, you will be given auto assets needed to run that application website scalability can help when more and more uploids are increasing rapidly. Sociability helps to increase storage,

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