Name: TANISHQ

ASSIGNMENT For Day 3 (CLOUDNET WORKSHOP)

THEORY

a) Before going for cloud computing platform what are the essential things to be taken in concern by users?

Ans: Following are the essential things that must be followed before going for the cloud computing platform:

- Uptime.
- Loss of data.
- Data storage.
- Compliance.
- Business continuity.
- Data integrity in cloud computing.

b) Mention some open source cloud computing platform databases?

Ans. Some open-source cloud computing platform databases are –

- MongoDB – It is a schema-free and document-oriented database. It is written in C++ and provides high storage space.
- CouchDB – A database system based on the Apache server. It is used in data storage.
- Lucid DB – It is a Java/C++ database for data warehousing

c) What are the security laws which are implemented to secure data in a cloud ?

Ans: The security laws which are implemented to secure data in cloud are:-

a) Processing: Control the data that is being processed correctly and completely in an application

b) File: It manages and control the data being manipulated in any of the file

c) Output reconciliation: It controls the data which has to be reconciled from input to output

d) Input Validation: Control the input data

e) Security and Backup: It provides security and backup it also controls the security breaches logs

d) Mention the name of some large cloud providers and databases?

Ans: Some of the biggest cloud providers and databases are –

- Amazon Web Services
- SAP
- Enterprise DB
- Garantia Data
- Cloud SQL by Google
- Azure by Microsoft
- Rackspace
- Google Bigtable
- Amazon simple DB
- Cloud-based SQL

e) How user can gain from utility computing?

Ans: Utility computing allows the user to pay only for what they are using. It is a plug-in managed by an organization which decides what type of services has to be deployed from the cloud.

f) Explain the difference between cloud and traditional datacenters?

Ans: The differences are:-

a) The cost of the traditional data center is higher due to heating and hardware/software issues

b) Cloud gets scaled when the demand increases. Majority of the expenses are spent on the maintenance of the data centres, while that is not the case with cloud computing

g) How important is the platform as a service?

Ans: One of the major benefits of platform as a service (PaaS) is its ability to

improve a developer's productivity. PaaS provides direct support for business agility by enabling rapid development with faster and more frequent delivery of functionality. It does this through continuous integration techniques and automatic application deployment. PaaS also enables developers to realize the cloud's broader benefits..

h) What is a cloud service?

Ans :The term "cloud services" refers to a wide range of services delivered on demand to companies and customers over the internet. These services are designed to provide easy, affordable access to applications and resources, without the need for internal infrastructure or hardware. From checking email to collaborating on documents, most employees use cloud services throughout the workday, whether they're aware of it or not.

i) List down the three basic clouds in cloud computing?

Ans: There are three types of clouds –

Private clouds – Commonly offered as web applications or web services

Public clouds – Deployed and managed within the user's organization

Hybrid clouds – A combination of both public and private clouds