GALGOTIAS UNIVERSITY

Program: B. Tech

Course Code:BCSE3096

Course Name: Cloud Application Development

WHAT IS TRADITIONAL IT INFRASTRUCTURE

- Traditional data centers consist of various pieces of hardware, such as a desktop computer, which are connected to a network via a remote server. This server is typically installed on the premises, and provides all employees using the hardware, access to the business's stored data and applications.

- Businesses with this IT model must purchase additional hardware and upgrades in order to scale up their data storage and services to support more users.

Cloud Computing vs Traditional IT infrastructure

- Cloud computing is far more abstract as a virtual hosting solution. Instead of being accessible via physical hardware, all servers, software and networks are hosted in the cloud, off premises. It's a real-time virtual environment hosted between several different servers at the same time.

- So rather than investing money into purchasing physical servers in-house, you can rent the data storage space from cloud computing providers on a more cost effective pay-per-use basis.

Traditional software Development cycle

- Different Phases of traditional software development life cycle are

  i)Requirement Phase:

  Requirements gathering, focus on what requirements, specify   the requirements and project initiation

  ii)Analysis phase :

  Prepare project schedule, estimate of efforts and task duration. Tracking of the schedule happens in parallel with the rest of the subsequent phases.

iii)Design Phase:

Contains analysis phase and design phase. Activities of analysis phase are model the requirements, build prototype and evaluate alternate options .

iv)Development Phase:

Construct the code, in other words implement the design.

v)Testing Phase:

  Unit wise, after code integration and finally the system.

 vi)Deployment Phase:

  Deliver, support and maintain the deployed software.

Switch form traditional to Cloud Computing

- The traditional way of computing is not able to cope up with cloud computing, as the usage of cloud computing grows daily. Some of the primary reason for that are:

i)Flexibility:

The traditional services are not able to meet up with the changing demands of the customers and as the customer base grows the business are forced to expand their bandwidth to meet the customer demands.

Switch form traditional to Cloud Computing

i)Flexibility:

- The traditional services are not able to meet up with the changing demands of the customers and as the customer base grows the business are forced to expand their bandwidth to meet the customer demands.

- Whereas cloud-based services are ideal for businesses with growing or shifting bandwidth demands. If customer needs increase it's easy to scale up cloud capacity, drawing on the service's remote servers.

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ii)Automatic updates:

- One of the benefits of cloud computing is that there is no need worry about updating the software.

- The cloud service provider is responsible for the upgrade of the software.

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iii) Reduced Cost:

- Cloud cuts down on the hardware cost.

- The client can select or subscribe its choice of hardware from the cloud provider.

- This significantly reduces the cost of owning hardware. Hence providing more effective use of hardware.

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iv)World-wide access:

- Cloud provide access to the applications, files and services.
- This helps in increasing the productivity of the business as file are available on the go and business can work from anywhere around the globe.

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v)Increased teamwork:

- Teams can access, edit and share documents, files anytime, from anywhere, hence they're able to do more together.

- It helps teams make updates in real time and gives full visibility of their collaborations.

Thank You