



LUIT INFOTECH PRIVATE LIMITED

WHAT IS CLOUD COMPUTING?

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What is Cloud Computing?



What is cloud computing?

The term "cloud" is analogous to "Internet". The term "Cloud Computing" is based on cloud drawings used in the past to represent telephone networks and later to depict the Internet.

Cloud computing is Internet-based computing where virtual shared servers provide software, infrastructure, platform, devices, and other resources and hosting to customers on a pay-as-you-use basis. All information that a digitized system has to offer is provided as a service in the cloud computing model. Users can access these services available on the "Internet cloud" without having any previous know-how on managing the resources involved. Thus, users can concentrate more on their core business processes rather than spending time and gaining knowledge on resources needed to manage their business processes.

Cloud computing customers do not own the physical infrastructure; rather they rent the usage from a third-party provider. This helps them to avoid huge capital investments. They consume resources as a service and pay only for resources that they use. Most cloud computing infrastructures consist of services delivered through shared resources. This increases efficiency as servers are not unnecessarily left idle, which can reduce costs significantly while increasing the speed of application development.

What is Cloud Computing?



Cloud Architecture


Cloud computing architecture consists of two components "the front end" and "the back end". The front end of the cloud computing system comprises the client's device (or it may be a computer network) and some applications are needed for accessing the cloud computing system. The back end refers to the cloud itself which may encompass various computer machines, data storage systems, and servers. The Group of these clouds makes a whole cloud computing system. The whole system is administered via a central server that is also used for monitoring client's demand and traffic ensuring the smooth functioning of the system. A special type of software called "Middleware" is used to allow computers that are connected to the network to communicate with each other. Cloud computing systems also must have a copy of all its clients' data to restore the service which may arise due to a device breakdown. Making copies of data is called redundancy and cloud computing service providers provide data redundancy.

Deployment Models

There are four different deployment models of cloud computing:

Public Cloud: Public or external cloud is traditional cloud computing where resources are dynamically provisioned on a fine-grained, self-service basis over the Internet or VPN and or from an off-site third-party provider who bills on a fine-grained basis

Community Cloud: If several organizations have similar requirements and seek to share infrastructure to realize the benefits of cloud computing, then a community cloud can be established. This is a more expensive



What is Cloud Computing?




option as compared to a public cloud as the costs are spread over fewer users as compared to a public cloud. However, this option may offer a higher level of privacy, security, and/or policy compliance.

Hybrid Cloud: Hybrid Cloud means either two separate clouds joined together (public, private, internal, or external) or a combination of virtualized cloud server instances used together with real physical hardware. The most correct definition of the term "Hybrid Cloud" is probably the use of physical hardware and virtualized cloud server instances together to provide a single common service. Two clouds that have been joined together are more correctly called a "combined cloud".

Private Clouds: Private clouds describe offerings that deploy cloud computing on private networks. It consists of applications or virtual machines in a company's own set of hosts. They provide the benefits of utility computing -shared hardware costs, the ability to recover from failure, and the ability to scale up or down depending upon demand.

Benefits Of Cloud Computing

The benefits of cloud computing for an enterprise include:

- Reduction in upfront capital expenditure on hardware and software deployment. Consumption is usually billed on a utility (like phone bills) or subscription (like magazines) model. Users can terminate the contract at any time & are often covered by Service Level Agreements (SLAs) with financial penalties. This reduces risk and uncertainty and ensures ROI.
 - Location independence, so long as there is access to the Internet
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What is Cloud Computing?



- Increased flexibility and market agility - quick deployment model of cloud computing increases the ability to re-provision rapidly as required
- Allows enterprise to focus on its core business
- Increased competitive advantage
- Increased security at a much lesser cost as compared to traditional standalone applications due to the centralization of data & increased security-focused resources
- Easy to maintain as they don't have to be installed on each user's computer

Cloud Computing Market Size

The global cloud computing market size is expected to grow from USD 371.4 billion in 2020 to USD 832.1 billion by 2025, at a Compound Annual Growth Rate (CAGR) of 17.5% during the forecast period.

North America and Europe region have the highest market share in the cloud computing market, where these two regions together contribute more than half of the global cloud computing market in the year 2020. The Software as a Service model is expected to witness the highest adoption in the coming five years, as enterprises are deploying this service model to cut down on the CAPEX cost and focus on their core competencies instead of worrying about the IT infrastructure. The emergence of serverless computing, containerization, edge computing, and hybrid cloud architectures are few trends that are expected to shape the market in the coming years.



What is Cloud Computing?



Cloud Computing Integrated Business Applications Suite "LuitBiz"

LuitBiz (<http://www.luitinfotech.com>) is a completely responsive integrated business applications suite with Enterprise Asset Management (EAM), Customer Relationship Management (CRM), Human Resources Management (HRM), Employee Self Service (ESS), Document Management (DMS), and Business Process Management (BPM) modules that are offered in the cloud computing model. LuitBiz has been developed and marketed by Luit Infotech, a Bangalore (India) -based software company. Being completely responsive, LuitBiz can be accessed via any device connected to the Internet anywhere, anytime.

Companies can use "LuitBiz", a single software, to manage their entire business processes. There is no need to worry about hardware/software maintenance and huge capital expenditure on IT infrastructure. All they need to do is use LuitBiz to manage their entire business processes centrally over the Internet. As LuitBiz is completely responsive there is no need to download and install any mobile apps to access LuitBiz. LuitBiz is completely web-based and extremely easy to use with complete audio guides on each screen. Users can start off with LuitBiz with hardly any training.

